

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

FINAL

Merced to Fresno Section
Project EIR/EIS

Volume III:

Section D1 – Alignment Plans

BNSF Alternative with Ave 21 Wye

April 2012



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



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SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T0010-A	BNSF ALIGNMENT	AVENUE 21	INDEX OF DRAWINGS	SHEET 1 OF 2
	T0011-A	BNSF ALIGNMENT	AVENUE 21	INDEX OF DRAWINGS	SHEET 2 OF 2
	T0100-A	GENERAL		ABBREVIATIONS, SYMBOLS AND NOTES	
	T0101-A	BNSF ALIGNMENT	AVENUE 21	KEY MAP	SHEET 1 OF 6
	T0102-A	BNSF ALIGNMENT	AVENUE 21	KEY MAP	SHEET 2 OF 6
	T0103-A	BNSF ALIGNMENT	AVENUE 21	KEY MAP	SHEET 3 OF 6
	T0104-A	BNSF ALIGNMENT	DESIGN OPTIONS AROUND LE GRAND	KEY MAP	SHEET 4 OF 6
	T0105-A	BNSF ALIGNMENT	DESIGN OPTIONS AROUND LE GRAND	KEY MAP	SHEET 5 OF 6
	T0106-A	BNSF ALIGNMENT	DESIGN OPTIONS AROUND LE GRAND	KEY MAP	SHEET 6 OF 6
	TJ7401A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK GEOMETRY DATA	
	TJ7402A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK GEOMETRY DATA	
	TJ7403A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK GEOMETRY DATA	
	TJ7903	BNSF MAIN LINE	AVENUE 21	TRACK GEOMETRY DATA	
	TJ7906	BNSF MAIN LINE	AVENUE 21	TRACK GEOMETRY DATA	SHEET 6 OF 6
	T0150-A	BNSF ALIGNMENT	AVENUE 21	TRACK GEOMETRY DATA	SHEET 1 OF 1
	TJ3401A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TYPICAL SECTIONS	
	TJ3402A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TYPICAL SECTIONS	
	TJ3902	BNSF MAIN LINE	AVENUE 21	TYPICAL SECTIONS	SHEET 2 OF 3
	TJ3903	BNSF MAIN LINE	AVENUE 21	TYPICAL SECTIONS	SHEET 3 OF 3
	T3000-A	GENERAL		TYPICAL SECTION LIMITS	
	T3001-A			TYPICAL SECTIONS	SHEET 1 OF 17
	T3002-A			TYPICAL SECTIONS	SHEET 2 OF 17
	T3003-A			TYPICAL SECTIONS	SHEET 3 OF 17
	T3004-A			TYPICAL SECTIONS	SHEET 4 OF 17
	T3005-A			TYPICAL SECTIONS	SHEET 5 OF 17
	T3006-A			TYPICAL SECTIONS	SHEET 6 OF 17
	T3007-A			TYPICAL SECTIONS	SHEET 7 OF 17
	T3008-A			TYPICAL SECTIONS	SHEET 8 OF 17
	T3009-A			TYPICAL SECTIONS	SHEET 9 OF 17
	T3010-A			TYPICAL SECTIONS	SHEET 10 OF 17
	T3011-A			TYPICAL SECTIONS	SHEET 11 OF 17
	T3012-A			TYPICAL SECTIONS	SHEET 12 OF 17
	T3013-A			TYPICAL SECTIONS	SHEET 13 OF 17
	T3014-A			TYPICAL SECTIONS	SHEET 14 OF 17
	T3015-A			TYPICAL SECTIONS	SHEET 15 OF 17
	T3016-A			TYPICAL SECTIONS	SHEET 16 OF 17
	T3017-A			TYPICAL SECTIONS	SHEET 17 OF 17
	T2086-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK PLAN AND PROFILE	STA 6152+00 TO STA 6208+00
	T2087-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK PLAN AND PROFILE	STA 6208+00 TO STA 6264+00
	T2088-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK PLAN AND PROFILE	STA 6264+00 TO STA 6320+00
	T2089-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK PLAN AND PROFILE	STA 6320+00 TO STA 6376+00
	T2090-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK PLAN AND PROFILE	STA 6376+00 TO STA 6432+00
	T2091-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK PLAN AND PROFILE	STA 6342+00 TO STA 6488+00
	T2092-A	BNSF MAIN LINE	AVENUE 24/SR152/AVENUE 21	TRACK PLAN AND PROFILE	STA 6488+00 TO STA 6542+00
	T2093-A	BNSF MAIN LINE	AVENUE 21	TRACK PLAN AND PROFILE	STA 6146+00 TO STA 6202+00
	T2094-A	BNSF MAIN LINE	AVENUE 21	TRACK PLAN AND PROFILE	STA 6202+00 TO STA 6258+00
	T2095-A	BNSF MAIN LINE	AVENUE 21	TRACK PLAN AND PROFILE	STA 6258+00 TO STA 6314+00
	T2096-A	BNSF MAIN LINE	AVENUE 21	TRACK PLAN AND PROFILE	STA 6314+00 TO STA 6370+00
	T2097-A	BNSF MAIN LINE	AVENUE 21	TRACK PLAN AND PROFILE	STA 6370+00 TO STA 6426+00
	T2098-A	BNSF MAIN LINE	AVENUE 21	TRACK PLAN AND PROFILE	STA 6426+00 TO STA 6482+00
	T2099-A	BNSF MAIN LINE	AVENUE 21	TRACK PLAN AND PROFILE	STA 6482+00 TO STA 6506+32
	T1100-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 267+40.72 TO STA 315+00
	T1101-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 315+00 TO STA 370+00
	T1102-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 370+00 TO STA 425+00
	T1103-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 425+00 TO STA 480+00
	T1104-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 480+00 TO STA 535+00
	T1105-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 535+00 TO STA 590+00
	T1106-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 590+00 TO STA 645+00
	T1107-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 645+00 TO STA 700+00
	T1108-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 700+00 TO STA 755+00
	T1109-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 755+00 TO STA 810+00
	T1110-A	BNSF MAIN LINE	AVENUE 21	PLAN AND PROFILE	STA 810+00 TO STA 865+00
	T1111-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 865+00 TO STA 920+00
	T1112-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 920+00 TO STA 975+00
	T1113-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 975+00 TO STA 1030+00

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T1114-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1030+00 TO STA 1085+00
	T1115-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1085+00 TO STA 1140+00
	T1116-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1140+00 TO STA 1195+00
	T1117-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1195+00 TO STA 1250+00
	T1118-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1250+00 TO STA 1305+00
	T1119-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1305+00 TO STA 1360+00
	T1120-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1360+00 TO STA 1415+00
	T1121-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1415+00 TO STA 1470+00
	T1122-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1470+00 TO STA 1525+00
	T1123-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1525+00 TO STA 1580+00
	T1124-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1580+00 TO STA 1635+00
	T1125-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1635+00 TO STA 1690+00
	T1126-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1690+00 TO STA 1740+55.75
	T1127-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1713+98 TO STA 1748+00
	T1128-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1748+00 TO STA 1801+61.52
	T1200-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4302+03.01 TO STA 4345+00
	T1201-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4345+00 TO STA 4400+00
	T1202-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4400+00 TO STA 4455+00
	T1203-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4455+00 TO STA 4510+00
	T1204-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4510+00 TO STA 4565+00
	T1205-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4565+00 TO STA 4620+00
	T1206-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4620+00 TO STA 4675+00
	T1207-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4675+00 TO STA 4730+00
	T1208-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4730+00 TO STA 4785+00
	T1209-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4785+00 TO STA 4840+00
	T1210-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4840+00 TO STA 4895+00
	T1211-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4895+00 TO STA 4950+00
	T1212-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4950+00 TO STA 5005+00
	T1213-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5005+00 TO STA 5060+00
	T1214-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5060+00 TO STA 5115+00
	T1215-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5115+00 TO STA 5170+00
	T1216-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5170+00 TO STA 5225+00
	T1217-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5225+00 TO STA 5280+00
	T1218-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5280+00 TO STA 5335+00
	T1219-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5335+00 TO STA 5390+00
	T1220-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5390+00 TO STA 5445+00
	T1221-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5445+00 TO STA 5500+00
	T1222-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5500+00 TO STA 5555+00
	T1223-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5555+00 TO STA 5610+00
	T1224-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5610+00 TO STA 5665+00
	T1225-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5665+00 TO STA 5720+00
	T1226-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5720+00 TO STA 5775+00
	T1227-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5775+00 TO STA 5830+00
	T1228-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5830+00 TO STA 5885+00
	T1229-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5885+00 TO STA 5940+00
	T1230-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5940+00 TO STA 5995+00
	T1231-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5995+00 TO STA 6050+00
	T1232-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 6050+00 TO STA 6066+12.20
	T1250-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 105+85.37 TO STA 135+00
	T1251-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 135+00 TO STA 190+00
	T1252-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 190+00 TO STA 245+00
	T1253-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 245+00 TO STA 300+00
	T1254-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 300+00 TO STA 355+00
	T1255-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 355+00 TO STA 410+00
	T1256-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 410+00 TO STA 465+00
	T1257-A	BNSF WYE - NB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 465+00 TO STA 474+09.91
	T1280-A	BNSF WYE - SB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 500+00 TO STA 530+00
	T1281-A	BNSF WYE - SB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 530+00 TO STA 585+00
	T1282-A	BNSF WYE - SB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 585+00 TO STA 640+00
	T1283-A	BNSF WYE - SB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 640+00 TO STA 695+00
	T1284-A	BNSF WYE - SB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 695+00 TO STA 750+00
	T1285-A	BNSF WYE - SB CONNECTION	AVENUE 21	PLAN AND PROFILE	STA 750+00 TO STA 765+39.18
	T1400-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 2974+48.74 TO STA 2985+00
	T1401-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 2985+00 TO STA 3040+00
	T1402-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3040+00 TO STA 3095+00
	T1403-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3095+00 TO STA 3150+00

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T1404-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3150+00 TO STA 3205+00
	T1405-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3205+00 TO STA 3260+00
	T1406-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3260+00 TO STA 3315+00
	T1407-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3315+00 TO STA 3370+00
	T1408-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3370+00 TO STA 3425+00
	T1409-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3425+00 TO STA 3480+00
	T1410-A	BNSF MERCED CONNECTION	MISSION AVENUE EAST OF LE GRAND	PLAN AND PROFILE	STA 3480+00 TO STA 3520+04.54
	T1500-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 500+00 TO STA 545+00
	T1501-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 545+00 TO STA 600+00
	T1502-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 600+00 TO STA 655+00
	T1503-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 655+00 TO STA 710+00
	T1504-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 710+00 TO STA 765+00
	T1505-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 765+00 TO STA 820+00
	T1506-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 820+00 TO STA 875+00
	T1507-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 875+00 TO STA 930+00
	T1508-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 930+00 TO STA 985+00
	T1509-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 985+00 TO STA 1040+00
	T1510-A	BNSF MERCED CONNECTION	MARIPOSA WAY EAST OF LE GRAND	PLAN AND PROFILE	STA 1040+00 TO STA 1066+78.86
	T1600-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1000+00 TO STA 1045+00
	T1601-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1045+00 TO STA 1100+00
	T1602-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1100+00 TO STA 1155+00
	T1603-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1155+00 TO STA 1210+00
	T1604-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1210+00 TO STA 1265+00
	T1605-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1265+00 TO STA 1320+00
	T1606-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1320+00 TO STA 1375+00
	T1607-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1375+00 TO STA 1430+00
	T1608-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1430+00 TO STA 1485+00
	T1609-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1485+00 TO STA 1540+00
	T1610-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1540+00 TO STA 1595+00
	T1611-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1595+00 TO STA 1650+00
	T1612-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1650+00 TO STA 1705+00
	T1613-A	BNSF MERCED CONNECTION	MISSION AVENUE	PLAN AND PROFILE	STA 1705+00 TO STA 1739+95.80

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY T. WALTZ
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF ALIGNMENT
AVENUE 21
INDEX OF DRAWINGS
SHEET 2 OF 2

CONTRACT NO. HSR06-007
DRAWING NO. T0011-A
SCALE NONE
SHEET NO. ### OF ###

I:\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELD\Rev 1 - 15% Plans\UPRR AVE 21\WF-T-0100.dgn 4/3/2012 9:23:31 AM GibsonR1

ABBREVIATIONS

ALIGNMENT

HORIZONTAL	
BC	BEGINNING OF CURVE
CS	CURVE TO SPIRAL
EC	END OF CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CIRCULAR CURVES
PCS	POINT OF CURVE TO SPIRAL
PF	POINT OF FROG
PI	POINT OF INTERSECTION OF TWO TANGENTS
PITO	POINT OF INTERSECTION OF TURNOUT
POC	POINT ON CURVE
POS	POINT ON SPIRAL
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PS	POINT OF SWITCH
PSC	POINT OF SPIRAL TO CURVE
PT	POINT OF TANGENCY
R	RADIUS OF CURVATURE IN FEET
SC	SPIRAL TO CURVE
SPO	POINT OF ORIGIN OF COMPOUND SPIRAL
SS	POINT OF SPIRAL TO SPIRAL
ST	SPIRAL TO TANGENT
TS	TANGENT TO SPIRAL
V	DESIGN VELOCITY IN MILES PER HOUR
VERTICAL	
PVC	POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
PVI	POINT OF VERTICAL INTERSECTION (OF TANGENTS)
PVT	POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
VC	VERTICAL CURVE

MISCELLANEOUS

BEG	BEGIN
BLVD	BOULEVARD
CL	CENTER LINE
CLR	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EQ	EQUATION
EXIST(E)	EXISTING
IN	INCH
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVER HEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL	PROFILE GRADE LINE
RR	RAILROAD
RD	ROAD
R/W ROW	RIGHT OF WAY
RT	RIGHT
SS	SANITARY SEWER
SHT	SHEET
ST	STREET
STD	STANDARD
SD	STORM DRAIN
STRUCT	STRUCTURE
T	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TO	TURNOUT
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER
	OPTIC
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS

	MATCH LINE
	HST TRACK
	PROPOSED HST RIGHT-OF-WAY
	FREIGHT/PASSENGER TRACK - EXISTING
	EXISTING RIGHT-OF-WAY
	EXISTING BRIDGE FEATURES
	RETAINING WALLS
	ORIGINAL GROUND
	GAS LINE (16")
	COMMUNICATION LINE
	WATER LINE
	FIBER OPTIC LINE
	ELECTRICAL LINE
	ELECTRICAL TOWER
	SEWER LINE
	STORM DRAIN LINE
	FUEL LINE
	TELEPHONE LINE
	PETROLEUM LINE (12")
	OVERHEAD
	NORTH ARRROW
	PVI
	POTENTIAL SOUND BARRIER

NOTES:

- EXISTING ROADS TO BE GRADE SEPARATED OVER THE HIGH SPEED TRAIN (HST) RIGHT OF WAY ARE INDICATED IN THE ALIGNMENT PROFILE. ALL OTHER ROADS CROSSING THE PROPOSED HST TRACKS WILL BE CLOSED OR RELOCATED. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.
- SEE STRUCTURE PLANS FOR LIMITS AND DETAILS OF VIADUCTS, STREAM CROSSINGS, RETAINING WALLS AND OTHER HST STRUCTURES.
- SEE ROADWAY PLANS FOR ROADWAY RELOCATIONS, GRADE SEPARATIONS, AND MODIFICATIONS TO STATE HIGHWAY FACILITIES.
- UTILITIES INDICATED ON THE PLANS ARE FOR REFERENCE ONLY. SEE "UTILITIES CONFLICT MEMO" FOR ADDITIONAL INFORMATION AND PROPOSED RELOCATION CONCEPTS.
- ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPORVEMENTS.
- STANDALONE RADIO SITES WILL BE PROVIDED IN BETWEEN TRACTION POWER FACILITIES (SUBSTATIONS, SWITCHING STATIONS, AND PARALLELING STATIONS). SPACING OF THESE SITES WILL VARY BETWEEN 1-1/2 AND 3 MILES. ACCESS TO THESE SITES WILL BE PROVIDED AT THE NEAREST PUBLIC ROAD THAT CROSSES THE HIGH SPEED TRAIN ALIGNMENT.

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY B. CHAN
DRAWN BY S. LEONG
CHECKED BY A. BOWE
IN CHARGE J. VALSECCHI
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



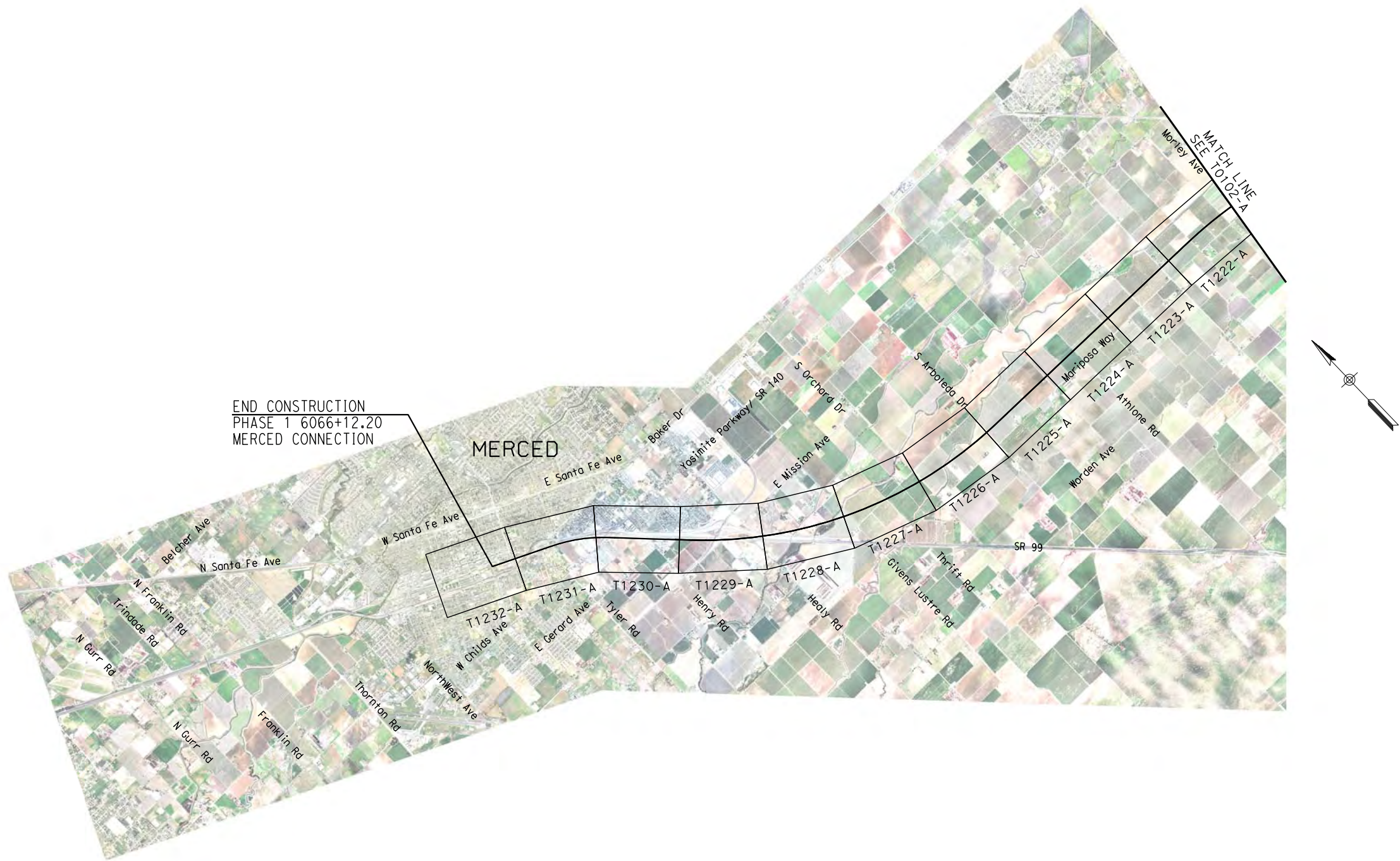
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GENERAL

ABBREVIATIONS, SYMBOLS AND NOTES

CONTRACT NO. HSR06-007
DRAWING NO. T0100-A
SCALE NO SCALE
SHEET NO. ### OF ###

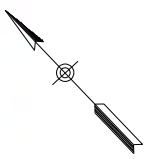
1/9/2012 3:41:41 PM \\usscrlfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsf ave 21\MF-T-0101-A.dgn shieldsa



END CONSTRUCTION
PHASE 1 6066+12.20
MERCED CONNECTION

MERCED

MATCH LINE
SEE T0102-A



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

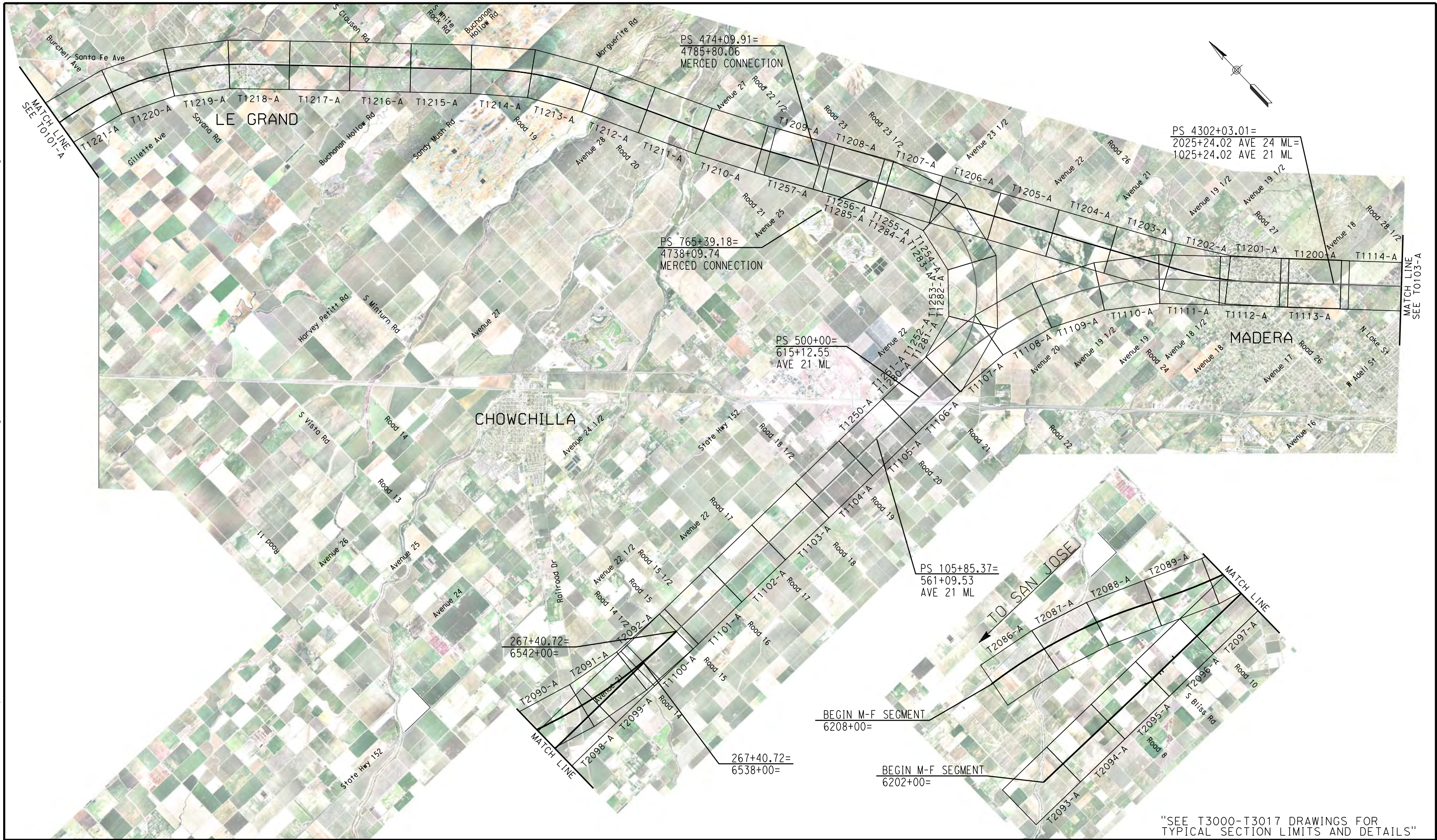


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
AVENUE 21
KEY MAP
SHEET 1 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0101-A
SCALE
NO SCALE
SHEET NO.
OF

1/11/2012 10:46:26 AM \\usscrlfp001\Cadd\ChSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnstf ave 21\MF-T-0102-A.dgn

shieldsa



REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

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15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
AVENUE 21
KEY MAP
SHEET 2 OF 6

CONTRACT NO.
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DRAWING NO.
T0102-A
SCALE
NO SCALE
SHEET NO.
OF

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

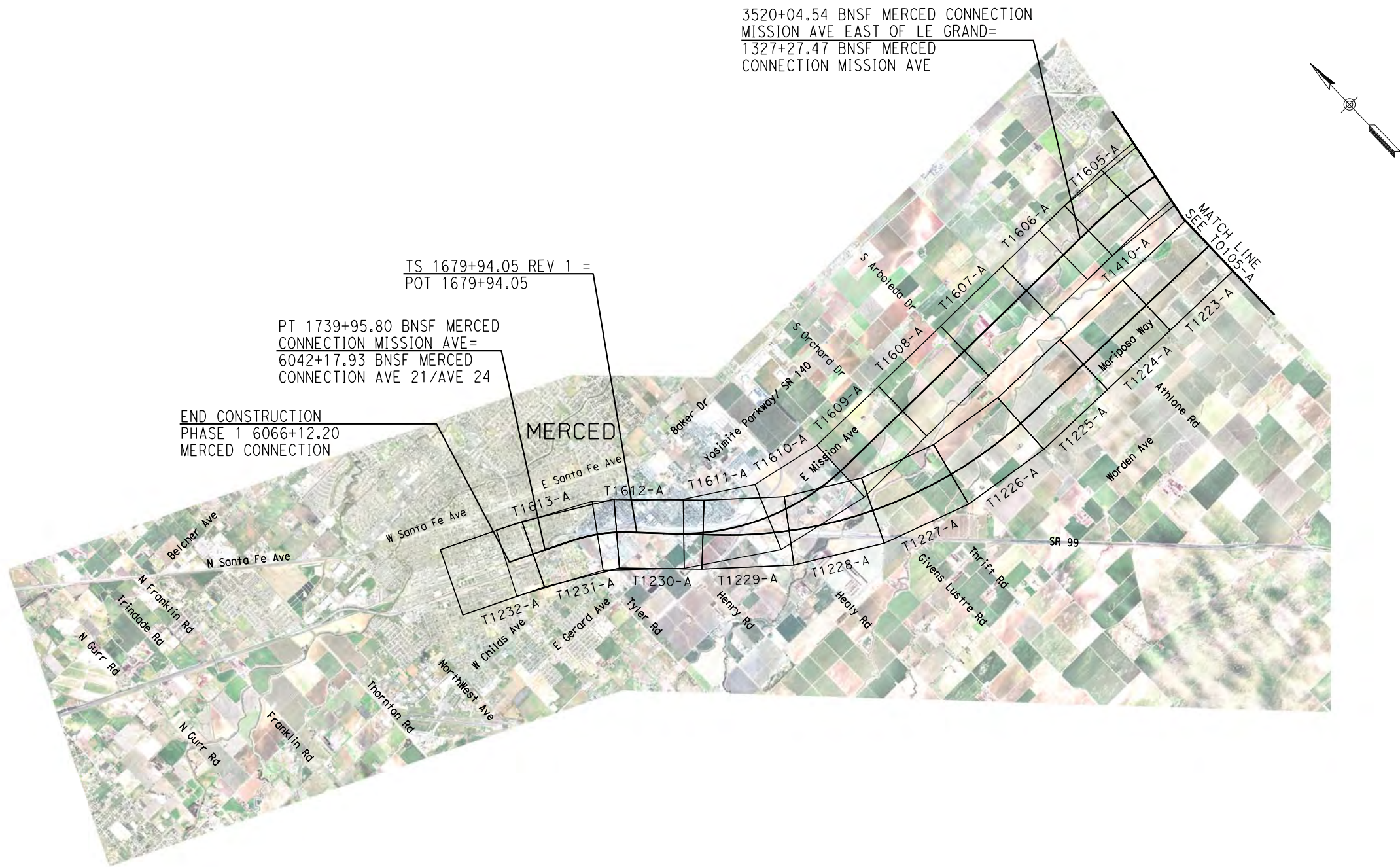


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
AVENUE 21
KEY MAP
SHEET 3 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0103-A
SCALE
NO SCALE
SHEET NO.
OF

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TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF ALIGNMENT
DESIGN OPTIONS AROUND LE GRAND
KEY MAP
SHEET 4 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0104-A
SCALE
NO SCALE
SHEET NO.
OF

1/11/2012 10:57:03 AM \\usscrlfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsf ave 21\WF-T-0106-A.dgn
shieldsa



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

1	12/12/2011	AS			TRACK REALIGNMENT
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL





CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
DESIGN OPTIONS AROUND LE GRAND
KEY MAP
SHEET 6 OF 6

CONTRACT NO.	HSR06-007
DRAWING NO.	T0106-A
SCALE	NO SCALE
SHEET NO.	### OF ###

TRACK ALIGNMENT DATA SUMMARY TABLE - SOUTHBOUND TRACK

[illegible]

						DESIGNED BY P. JACOBY	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION	 PARSONS	 <i>CALIFORNIA</i> HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 24/SR 152/AVENUE 21 TRACK GEOMETRY DATA	CONTRACT NO. HSR08-05
					DRAWN BY ALBERT S.	DRAWING NO. TJ7401A					
					CHECKED BY RESHMA C.						
					IN CHARGE D. WEMMER	SCALE NO SCALE					
					DATE 4/15/2011	SHEET NO.					
REV	DATE	BY	CHK	APP	DESCRIPTION						

7/21/2011 9:33:00 AM c:\pw_working\ptgwiseb\p0039764\dms66816\JM-TJ-7402A.dgn

p0039764

TRACK ALIGNMENT DATA SUMMARY TABLE - SOUTHBOUND TRACK

CURVE	ELEMENT	POINT TYPE	STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, Δ	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EA)(IN)	WCB (0°00'00") (TANGENT)	WCB (0°00'00")	
				NORTHING	EASTING										START ANGLE	END ANGLE
SR-4-SB	CLOTHOID	TS	6323+90.04	1847153.54	6606212.88											
	CLOTHOID	SPI	6334+90.06	1846684.64	6607207.95		1650.00	1°03'00"	824.99	2.52					S 64°46'07" E	S 65°49'08" E
	CLOTHOID	SC	6340+40.04	1846459.33	6607709.7											
	ARC	SC	6340+40.04	1846459.33	6607709.7											
	ARC	PI	6434+27.70	1842613.92	6616273.64	45016.50	18510.04	23°33'33"			250	4.00	1.55		S 65°49'08" E	S 89°22'40" E
	ARC	CC		1887525.83	6626149.55											
	ARC	CS	6525+50.08	1842511.99	6625660.74											
	CLOTHOID	CS	6525+50.08	1842511.99	6625660.74											
	CLOTHOID	SPI	6531+00.10	1842506.01	6626210.73		1650.00	1°03'00"	824.99	2.52					S 89°22'40" E	N 89°34'20" E
	CLOTHOID	ST	6542+00.08	1842514.23	6627310.72											

REV	DATE	BY	CHK	APP	DESCRIPTION	

DESIGNED BY P. JACOBY
DRAWN BY ALBERT S.
CHECKED BY RESHMA C.
IN CHARGE D. WEMMER
DATE 4/15/2011

15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

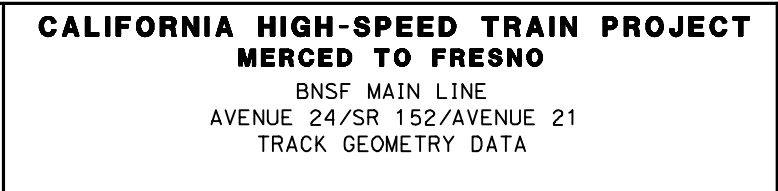
BNSF MAIN LINE
AVENUE 24/SR 152/AVENUE 21
TRACK GEOMETRY DATA

CONTRACT NO. HSR08-05
DRAWING NO. TJ7402A
SCALE NO SCALE
SHEET NO.

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p0039764 7/2



DESIGNED BY	P. JACOBY
DRAWN BY	ALBERT S.
CHECKED BY	RESHMA C.
IN CHARGE	D. WEMMER
DATE	4/15/2011



CONTRACT NO. HSR08-05
DRAWING NO. TJ7403A
SCALE NO SCALE
SHEET NO.

TRACK ALIGNMENT DATA SUMMARY TABLE - SOUTHBOUND TRACK

CURVE	ELEMENT	POINT TYPE	STATION	COORDINATES		RADIUS (FT)	LENGTH (FT)	DELTA, Δ	K	P	DESIGN SPEED (MPH)	ACTUAL SUPERELEVATION (EA)(IN)	UNBALANCED SUPERELEVATION (EA)(IN)	WCB (0°00'00") (TANGENT)	WCB (0°00'00")		
				NORTHING	EASTING										START ANGLE	END ANGLE	
	TANGENT	ST	A 6085+46.45	1842427.27	6581100.50		16,264.68							S 89°45'06" E			
	TANGENT	TS	A 6248+11.13	1842356.80	6597365.02												
V21-8	CLOTHOID	TS	A 6248+11.13	1842356.80	6597365.02			0°06'46"							S 89°45'06" E		
	CLOTHOID	SPI	A 6252+57.79	1842354.87	6597811.69		670.00		335	0.11						S 89°51'53" E	
	CLOTHOID	SC	A 6254+81.13	1842354.34	6598035.02												
	ARC	SC	A 6254+81.13	1842354.34	6598035.02			0°14'53"							S 89°51'53" E		
	ARC	PI	A 6258+49.28	1842353.47	6598403.17	170,000.00	736.31				250	1.00	0.47			N 89°53'14" E	
	ARC	CC		2012353.87	6598436.51												
	ARC	CS	A 6262+17.43	1842354.20	6598771.32												
	CLOTHOID	CS	A 6262+17.43	1842354.20	6598771.32			0°06'46"							N 89°53'14" E		
CLOTHOID	SPI	A 6264+40.77	1842354.64	6598994.66		670.00		335	0.11						N 89°46'27" E		
CLOTHOID	ST	A 6268+87.43	1842356.40	6599441.32													
	TANGENT	ST	A 6268+87.43	1842356.40	6599441.32		12,106.35							N 89°46'27" E			
	TANGENT	TS	A 6389+93.79	1842404.10	6611547.58												
V21-9	CLOTHOID	TS	A 6389+93.79	1842404.10	6611547.58			0°02'53"							N 89°46'27" E		
	CLOTHOID	SPI	A 6394+40.45	1842405.86	6611994.24		670.00		335	0.05						N 89°43'35" E	
	CLOTHOID	SC	A 6396+63.79	1842406.92	6612217.57												
	ARC	SC	A 6396+63.79	1842406.92	6612217.57			0°07'59"							N 89°43'35" E		
	ARC	PI	A 6401+27.95	1842409.14	6612681.73	400,000.00	928.33				250	0.50	0.13			N 89°35'36" E	
	ARC	CC		2242402.36	6610306.54												
	ARC	CS	A 6405+92.12	1842412.43	6613145.89												
	CLOTHOID	CS	A 6405+92.12	1842412.43	6613145.89			0°02'53"	335						N 89°35'36" E		
CLOTHOID	SPI	A 6408+15.45	1842414.02	6613369.22		670.00			0.05						N 89°32'43" E		
CLOTHOID	ST	A 6412+62.12	1842417.56	6613815.87													
	TANGENT	ST	A 6412+62.12	1842417.56	6613815.87		6,891.32							N 89°32'43" E			
	TANGENT	TS	A 6481+53.44	1842472.25	6620706.97												
								0°04'36"							N 89°32'43" E		
V21-10	CLOTHOID	TS	A 6481+53.44	1842472.25	6620706.97				335								
	CLOTHOID	SPI	A 6486+00.11	1842475.80	6621153.63		670.00			0.07						N 89°37'19" E	
	CLOTHOID	SC	A 6488+23.44	1842477.27	6621376.96												
								0°00'10"							N 89°37'19" E		
	ARC	SC	A 6488+23.44	1842477.27	6621376.96	250,000.00											
	ARC	PI	A 6488+29.38	1842477.31	6621382.90		11.89				250	0.25	0.25			N 89°37'29" E	
	ARC	CC		1592482.71	6623025.93												
	ARC	CS	A 6488+35.33	1842477.35	6621388.84												
									0°04'36"						N 89°37'29" E		
	CLOTHOID	CS	A 6488+35.33	1842477.35	6621388.84				335								
CLOTHOID	SPI	A 6490+58.66	1842478.81	6621612.17		670.00			0.07						N 89°42'06" E		
CLOTHOID	ST	A 6495+05.33	1842481.14	6622058.83													
	TANGENT	ST	A 6495+05.33	1842481.14	6622058.83		1,126.57							N 89°42'06" E			
	TANGENT	POE	A 6506+31.89	1842487.01	6623185.38												

						DESIGNED BY A. GURA	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY	 PARSONS	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 21 TRACK GEOMERTY DATA	CONTRACT NO. HSR08-05
					DRAWN BY J. PAZ	DRAWING NO. TJ7903					
					CHECKED BY S. GOOLLA	SCALE NO SCALE					
					IN CHARGE D. WEMMER	SHEET NO.					
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 4/15/2011					

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P0037225

DESIGNED BY	A. GURA
DRAWN BY	J. PAZ
CHECKED BY	S. GOOLLA
IN CHARGE	D. WEMMER
DATE	4/15/2011



CONTRACT NO.	HSR08-05
DRAWING NO.	TJ7906
SCALE	NO SCALE
SHEET NO.	

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TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE AVE 21 SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF201	250	28000	6.00	2.93	2000	646+46.52	890+17.44	T1107-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF202	250	28000	6.00	2.93	2000	1106+38.05	1169+50.77	T1115-A
BNSF203	250	28000	6.00	2.93	2000	1288+03.95	1432+77.00	T1118-A
BNSF204	250	28016.5	6.00	2.93	2000	1452+42.23	1566+35.87	T1121-A
BNSF205	250	28016.5	6.00	2.93	2000	1599+58.86	1731+68.17	T1124-A
BNSF206	250	42995.5	3.25	2.56	1199.87	1708+55.57	1748+44.15	T1127-A
BNSF207	250	43000	3.25	2.56	1200	1852+76.45	1927+63.38	T1130-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MERCED CONNECTION SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF109	150	32000			220	4302+03.01	4313+11.12	T1200-A
BNSF110	150	24000	1.25	2.50	220	4313+11.12	4323+70.19	T1200-A
BNSF111	250	28000	6.00	2.93	2000	4363+79.98	4453+67.52	T1201-A
BNSF112	250	43016.5	3.00	2.81	1100	4586+00.90	4897+66.79	T1210-A
BNSF113	250	28000	6.00	2.93	2000	4996+88.68	5109+38.05	T2212-A
BNSF114	250	28000	6.00	2.93	2000	5308+84.67	5547+08.45	T1218-A
BNSF115	250	28016.5	6.00	2.93	2000	5071+78.02	5942+55.78	T1225-A
BNSF116	150	10000	6.00	3.00	1000	5982+81.29	6029+03.10	T1230-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - BNSF WYE - SB CONNECTION AVE 24								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF118	150	32000			220	500+00	510+14.35	T1280-A
BNSF119	150	24000	1.25	2.50	220	510+14.35	518+63.11	T1280-A
BNSF220	150	10000	6.00	3.00	1200	523+90.92	742+78.44	T1280-A
BNSF221	150	32000			220	755+87.78	765+39.18	T1285-A

BNSF WYE MERCED CONNECTION MISSION AVENUE EAST OF LE GRAND - SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSFMC110	250	28000	6.00	2.93	2000	3000+00	3094+36.12	T1401-A
BNSFMC111	250	28000	6.00	2.93	2000	3108+39.34	3202+95.57	T1403-A
BNSFMC112	250	28000	6.00	2.93	2000	3238+21.87	3520+04.54	T1405-A

BNSF WYE MERCED CONNECTION MARIPOSA WAY EAST OF LE GRAND - SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSFMC120	250	28000	6.00	2.93	2000	588+15.35	701+33.86	T1501-A
BNSFMC121	250	28000	6.00	2.93	2000	788+14.79	1026+01.27	T1505-A

BNSF MERCED CONNECTION MISSION AVENUE - SB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSFMC130	250	28000	6.00	2.93	2000	1085+29.65	1327+27.47	T1601-A
BNSFMC131	175	15000	5.20	2.97	1200	1530+38.15	1662+58.93	T1609-A
BNSFMC132	150	10000	6.00	3.00	1000	1680+58.80	1726+80.61	T1612-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE AVE 21 NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF101	250	28016.50	6.00	2.93	2000	646+46.22	890+30.92	T-1107-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF102	250	28016.5	6.00	2.93	2000	1106+50.94	1169+66.78	T1115-A
BNSF103	250	28016.5	6.00	2.93	2000	1288+19.38	1433+00.37	T1118-A
BNSF104	250	28000	6.00	2.93	2000	1452+65.60	1566+53.12	T1121-A
BNSF105	250	28000	6.00	2.93	2000	1593+78.25	1734+18.05	T1124-A
BNSF106	250	43012	3.25	2.56	1200	1708+55.57	1748+44.15	T1127-A
BNSF107	250	43016.5	3.25	2.56	1200	1852+76.45	1927+63.38	T1130-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MERCED CONNECTION NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF209	150	32000			220	4302+03.01	4313+11.12	T1200-A
BNSF210	150	24000	1.25	2.50	220	4313+11.12	4323+70.19	T1201-A
BNSF211	250	28000	6.00	2.93	2000	3366+51.75	3456+39.30	T1201-A
BNSF212	250	43000	3.00	2.81	2000	3855+88.42	3897+53.13	T1210-A
BNSF213	250	28016.5	6.00	2.93	2000	3996+75.02	4109+29.85	T2212-A
BNSF214	250	28016.5	6.00	2.93	2000	4308+76.46	4547+13.11	T1218-A
BNSF215	250	28000	6.00	2.93	2000	4701+82.68	4942+47.44	T1225-A
BNSF216	150	10016.5	6.00	3.00	1000	4971+57.33	5039+96.02	T1230-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - BNSF WYE - NB CONNECTION AVE 24								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF228	150	32000			220	105+85.37	117+72.80	T1250-A
BNSF229	150	24020.25	1.25	2.50	220	117+72.80	127+52.23	T1250-A
BNSF230	150	10150	6.00	2.87	1200	182+87.46	407+30.99	T1251-A
BNSF231	150	24020.23	1.25	2.50	220	452+43.25	462+22.68	T1256-A
BNSF232	150	32000			220	462+22.68	474+09.91	T1257-A

BNSF WYE MERCED CONNECTION MISSION AVENUE EAST OF LE GRAND - NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSFMC210	250	27983.5	6.00	2.93	2000	3000+00	3094+36.12	T1401-A
BNSFMC211	250	28016.5	6.00	2.93	2000	3108+39.34	3202+95.57	T1403-A
BNSFMC212	250	28016.5	6.00	2.93	2000	3238+21.87	3520+04.54	T1405-A

BNSF WYE MERCED CONNECTION MARIPOSA WAY EAST OF LE GRAND - NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSFMC220	250	28016.5	6.00	2.93	2000	588+15.35	701+33.86	T1501-A
BNSFMC221	250	28000	6.00	2.93	2000	788+14.79	1026+01.27	T1505-A

BNSF MERCED CONNECTION MISSION AVENUE - NB								
CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSFMC230	250	28016.5	6.00	2.93	2000	1085+29.65	1327+27.47	T1601-A
BNSFMC231	175	14983.5	5.20	2.97	1200	1530+38.15	1662+58.93	T1609-A
BNSFMC232	150	10016.5	6.00	3.00	1000	1680+58.80	1726+80.61	T1612-A

REV	DATE	BY	CHK	APP	DESCRIPTION				

DESIGNED BY A. SHIELDS
DRAWN BY T. WALTZ
CHECKED BY A. SHIELDS
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF ALIGNMENT
AVENUE 21
TRACK GEOMETRY DATA
SHEET 1 OF 1

CONTRACT NO. HSR06-007
DRAWING NO. T0150-A
SCALE NO SCALE
SHEET NO. ### OF ###



1. TRACK, UCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
3. SEE STRUCTURES, VIADUCT AND TUNNEL PLANS FOR DETAILED CROSS SECTIONS OF STRUCTURES.
4. BALLASTED OR UNBALLASTED TRACK STRUCTURE TO BE DETERMINED.

STATION 5468+71.16 TO 5494+50.00



STATION 5494+50.00 TO 5582+51.76
STATION 6095+69.95 TO 6147+15.51
STATION 6277+56.72 TO 6310+30.54
STATION 6323+90.04 TO 6542+00.08



						DESIGNED BY P. JACOBY	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 24/SR152/AVENUE 21 TYPICAL SECTION	CONTRACT NO. HSR08-05
						DRAWN BY ALBERT S.					DRAWING NO. TJ3401A
						CHECKED BY RESHMA C.					SCALE 1"=10'
						IN CHARGE D. WEMMER					SHEET NO.
						DATE 4/15/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION						

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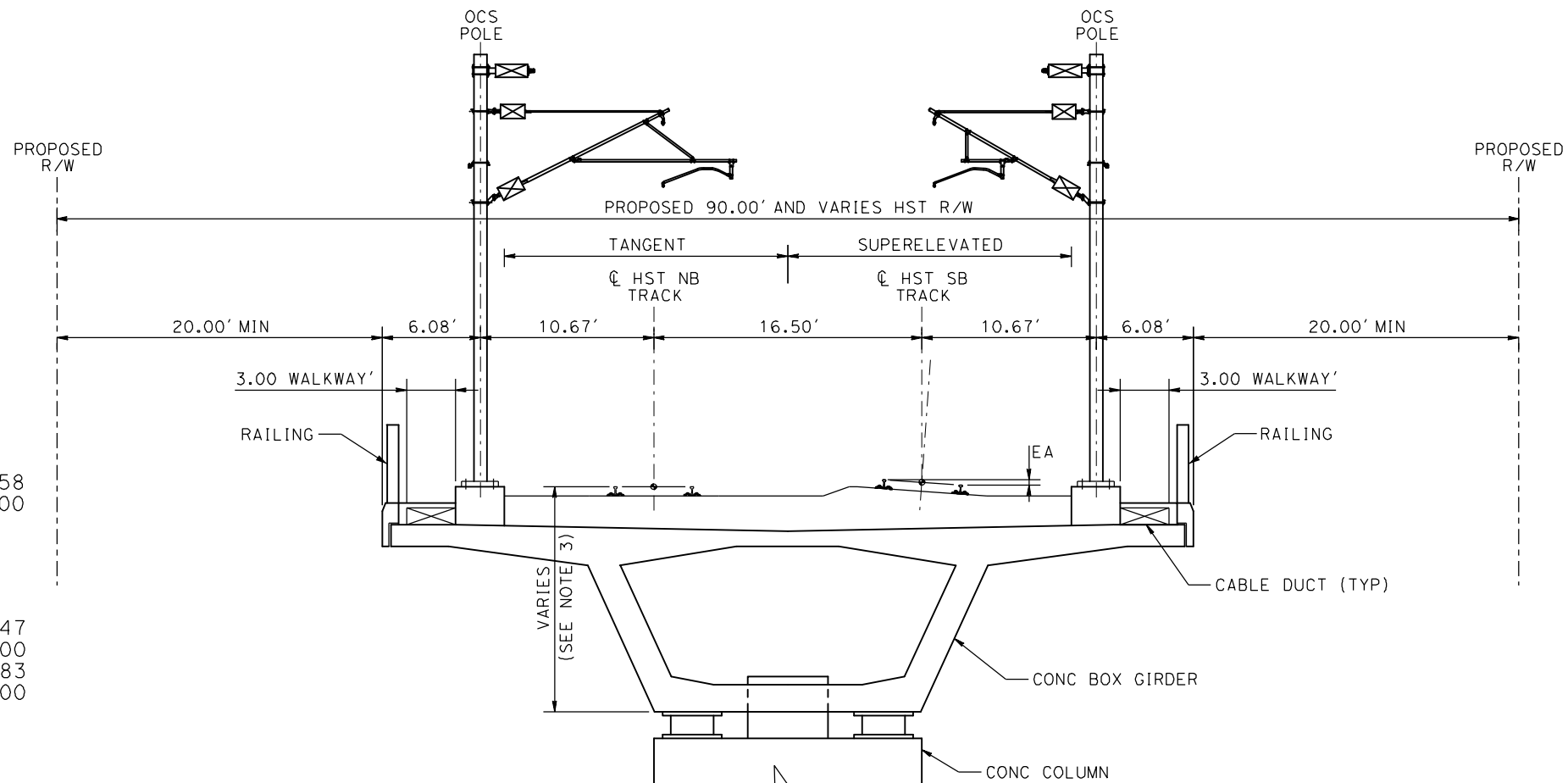
p0039764

SECTION A-A TANGENT

STATION 5617+79.47 TO 5656+79.58
STATION 5807+75.83 TO 5906+50.00

SUPERELEVATED

STATION 5617+00.00 TO 5617+79.47
STATION 5656+79.58 TO 5703+50.00
STATION 5764+00.00 TO 5807+75.83
STATION 6178+00.00 TO 6248+00.00



NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS

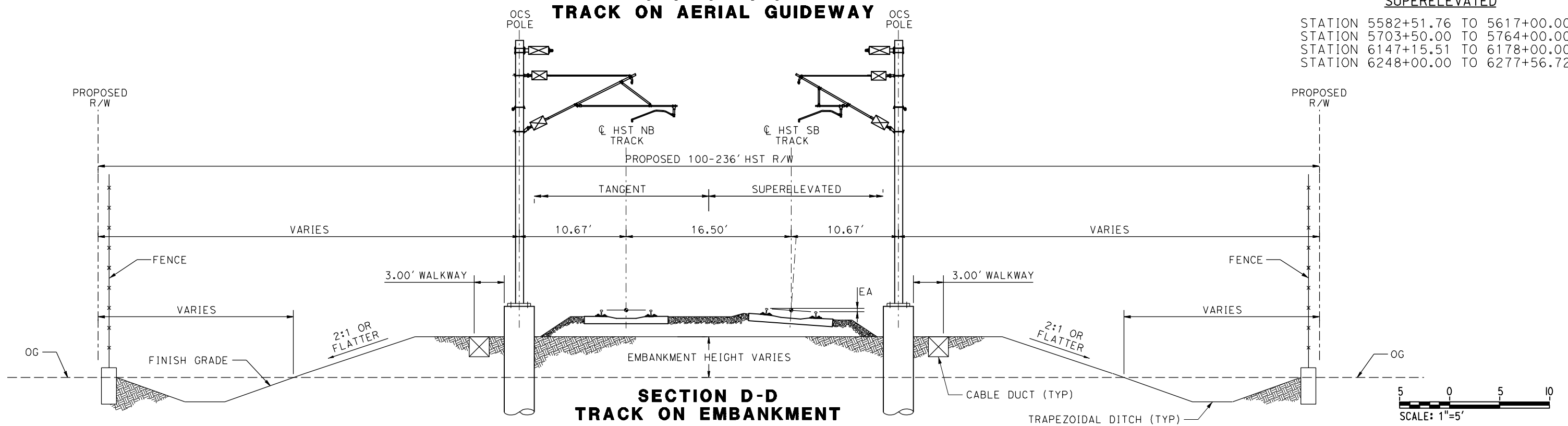
SECTION B-B TANGENT

STATION 5906+50.00 TO 5944+30.06

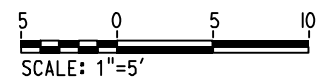
SUPERELEVATED

STATION 5582+51.76 TO 5617+00.00
STATION 5703+50.00 TO 5764+00.00
STATION 6147+15.51 TO 6178+00.00
STATION 6248+00.00 TO 6277+56.72

SECTION C-C TRACK ON AERIAL GUIDEWAY



SECTION D-D TRACK ON EMBANKMENT



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
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**NOT FOR
CONSTRUCTION**

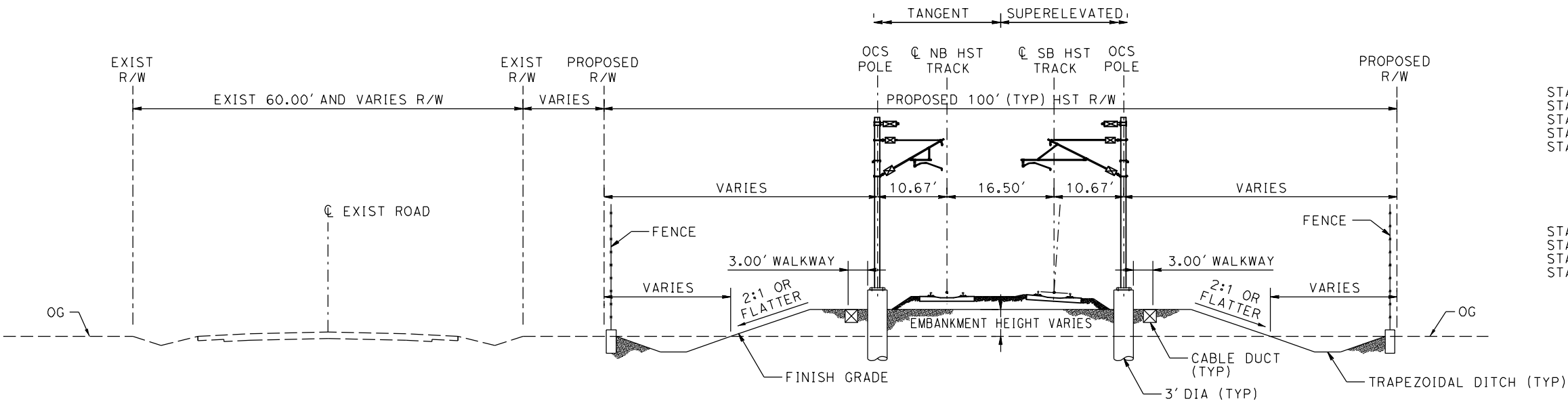


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24/SR152/AVENUE 21
TYPICAL SECTION

CONTRACT NO.
HSR08-05
DRAWING NO.
TJ3402A
SCALE
1"=5'
SHEET NO.

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS



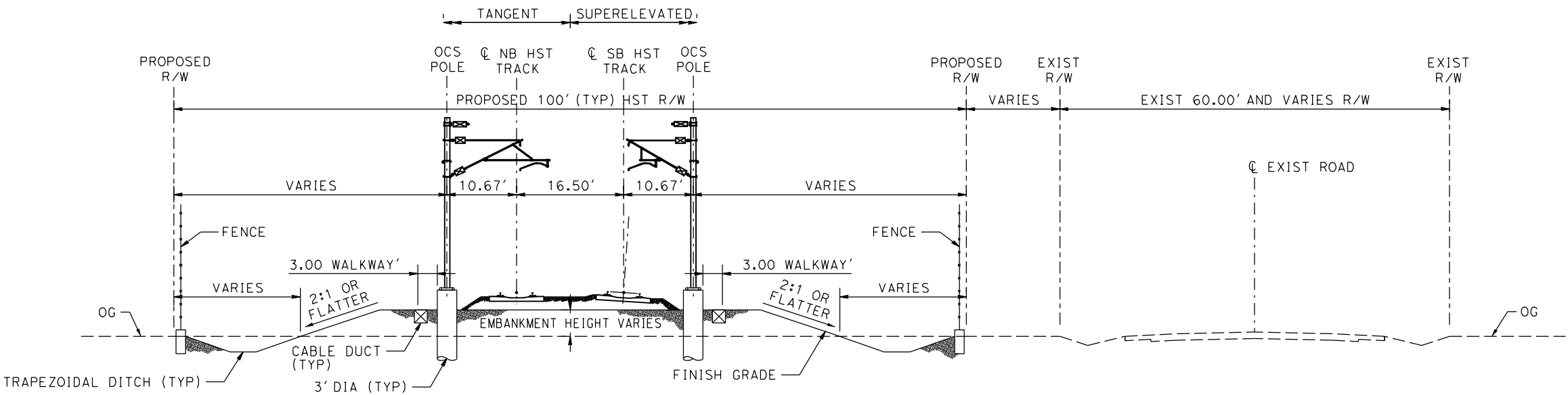
SECTION C-C
TRACK ON EMBANKMENT WITH ADJACENT ROAD

SECTION C
TANGENT

STATION A 4695+35.55 TO A 4697+25.00
STATION A 4782+00.00 TO A 4821+82.78
STATION A 4842+01.13 TO A 4956+10.00
STATION A 5038+90.00 TO A 5254+31.95
STATION A 5289+21.13 TO A 5367+74.09

SUPERELEVATED

STATION A 4663+00.00 TO A 4695+35.55
STATION A 4821+82.78 TO A 4842+01.13
STATION A 5254+31.95 TO A 5289+21.13
STATION A 5367+74.09 TO A 5400+00.00



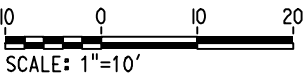
SECTION D-D
TRACK ON EMBANKMENT WITH ADJACENT ROAD

SECTION D
TANGENT

STATION A 5953+15.11 TO A 6065+36.88
STATION A 6085+46.45 TO A 6097+25.00
STATION A 6163+75.00 TO A 6248+11.13
STATION A 6268+87.43 TO A 6389+93.79
STATION A 6412+62.12 TO A 6748+12.50
STATION A 6498+46.27 TO A 6506+31.89

SUPERELEVATED

STATION A 4639+00.00 TO A 4663+00.00
STATION A 5900+95.00 TO A 5953+15.11
STATION A 6065+36.88 TO A 6085+46.45
STATION A 6248+11.13 TO A 6268+87.43
STATION A 6389+93.79 TO A 6412+62.12
STATION A 6748+12.50 TO A 6498+46.27



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	4/15/11				DRAFT 15% SUBMITTAL
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. GURA
DRAWN BY
S. HICKS
CHECKED BY
S. GOOLLA
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

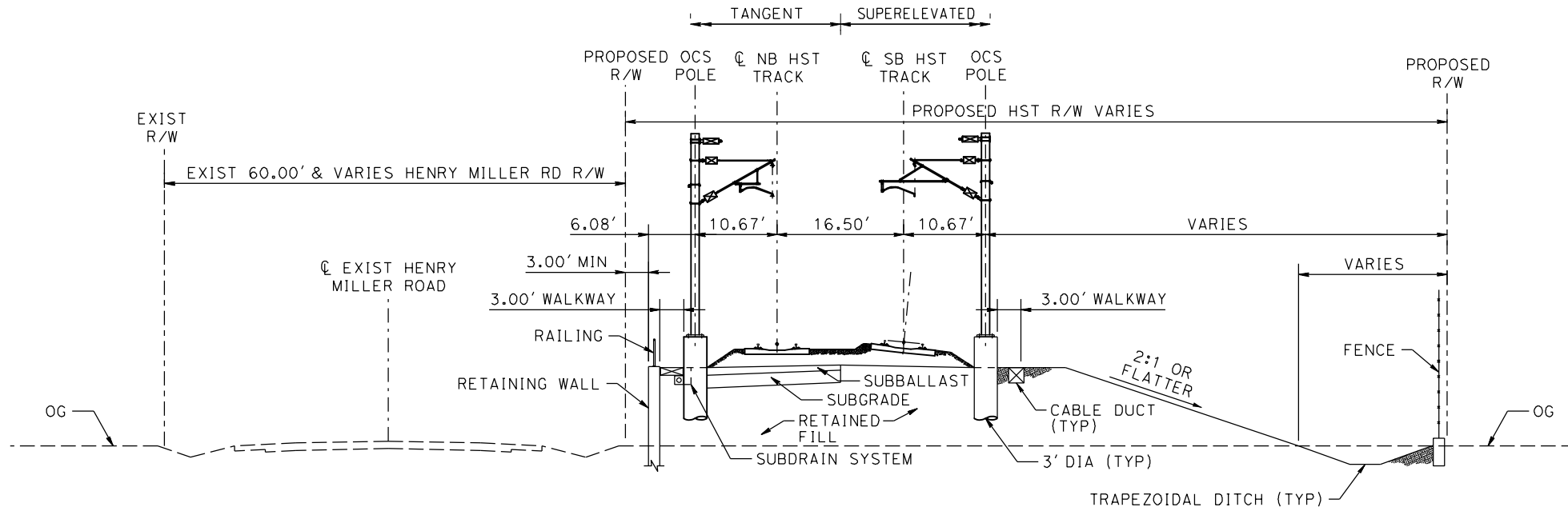
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 21
TYPICAL SECTIONS
SHEET 2 OF 3

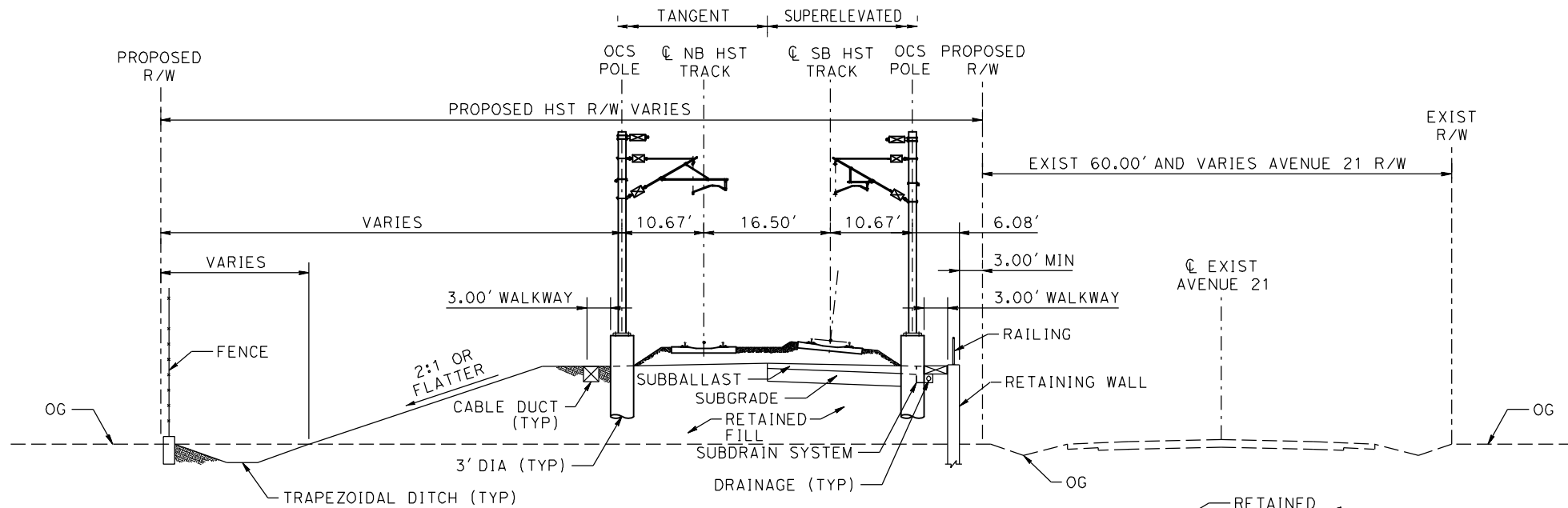
CONTRACT NO. HSR08-05
DRAWING NO. TJ3902
SCALE 1"=10'
SHEET NO.

NOTE: POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS



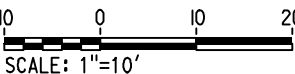
SECTION E-E
TYPICAL SECTION WITH RETAINED FILL ON LEFT

TANGENT STATION A 4697+25 TO A 4723+88
STATION A 4767+88 TO A 4782+00
SUPERELEVATED N/A



SECTION E-E
TYPICAL SECTION WITH RETAINED FILL ON RIGHT

TANGENT STATION A 6097+25 TO A 6116+75
STATION A 6142+00 TO A 6163+75
SUPERELEVATED N/A



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. GURA
DRAWN BY
A. GURA
CHECKED BY
S. GOOLLA
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
TYPICAL SECTIONS
SHEET 3 OF 3

CONTRACT NO.
HSR08-05
DRAWING NO.
TJ3903
SCALE
1" = 10'
SHEET NO.

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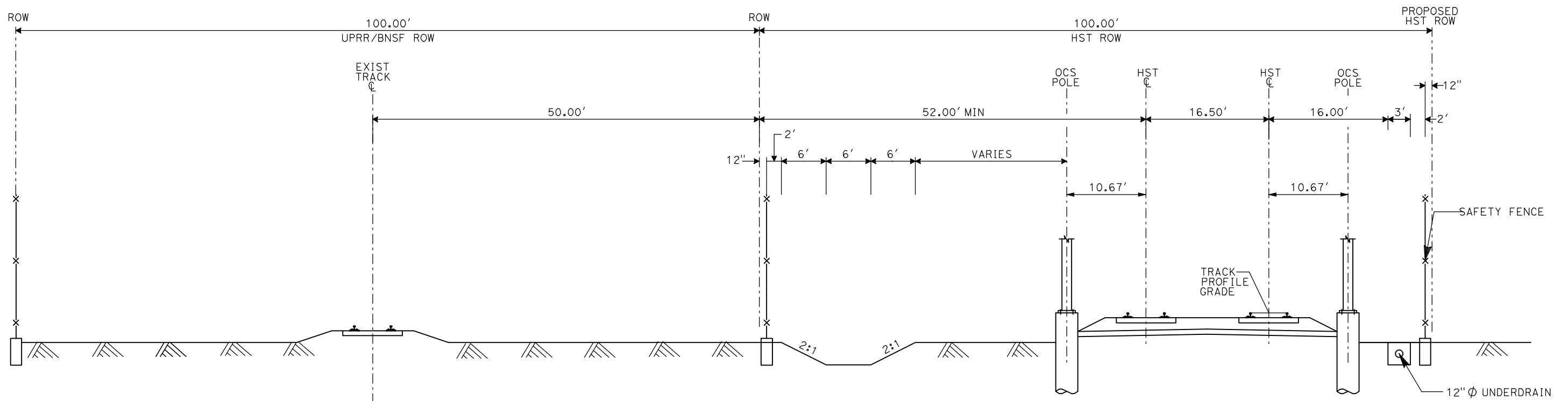
ShieldsA

ALTERNATIVE HYBRID AVENUE 24			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 24	892+90	926+80	AG2
	926+80	1020+00	WYE1
	1020+00	1185+00	AG2
	1185+00	1230+00	WYE1
	1230+00	1360+00	AG2
	1360+00	1375+00	RF2
	1375+00	1435+00	EL1
	1435+00	1443+00	RF2
	1443+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
UPRR/SR 99 WCD0/HYBRID MC SB	5061+66	5015+00	WYE1
	5015+00	5235+00	AG4
	5235+00	5285+00	WYE 1
	5288+00	5556+91	AG2
UPRR/SR 99 WCD0/HYBRID MC NB	5058+80	5110+00	WYE1
	5110+00	5121+00	EL2
	5121+00	5127+00	RF2
	5127+00	5235+00	AG4
	5235+00	5285+00	WYE1
UPRR/SR 99-21MC	5285+00	5597+00	AG2
	5556+98	5910+00	AG1
	5910+00	5916+50	TR2
	5916+50	5917+60	CC1
	5917+60	5925+00	TR2
	5925+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
UPRR/SR 99 WCD0/HYBRID WC NB	148+82	205+00	WYE1
	205+00	211+00	EL2
	211+00	219+00	RF2
	219+00	313+50	AG4
	313+50	320+00	RF2
	320+00	330+00	EL2
	330+00	382+25	WYE1
UPRR/SR 99 WCD0/HYBRID WC SB	524+67	570+00	WYE1
	570+00	695+00	AG4
	695+00	738+88	WYE1

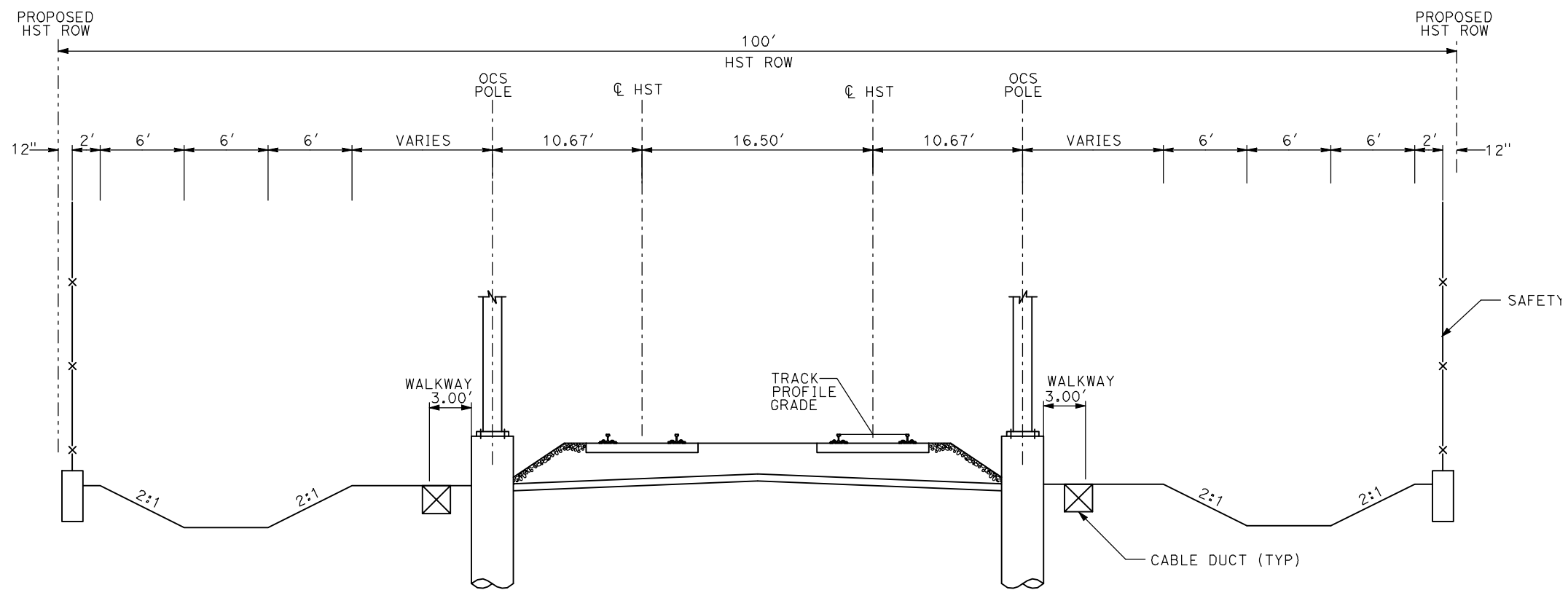
ALTERNATIVE HYBRID AVENUE 21			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 21	892+90	330+00	AG2
	330+00	430+00	WYE1
	430+00	565+00	AG2
	565+00	580+00	RF2
	580+00	630+00	EL1
	630+00	640+00	RF2
	640+00	680+00	WYE1
	680+00	868+87=	AG2
	1865+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
HYBRID MC SB - 21	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
HYBRID MC NB - 21	200+20	250+00	WYE1
	250+00	290+00	EL2
	290+00	377+99	EL1
UPRR/SR 99-21MC	500+00	550+00	WYE1
	550+00	590+00	EL2
	590+00	677+40	EL1
UPRR/SR 99-21WC NB	4907+27	4975+00	EL1
	4975+00	5045+00	WYE2
	5045+00	5385+00	EL1
	5385+00	5425+00	RF2
	5425+00	5910+00	AG1
	5910+00	5915+50	TR2
	5915+50	5916+60	CC1
	5916+60	5924+00	TR2
	5924+00	5977+70	AG1
	5977+70	5989+30	TR2
	5989+30	5990+40	CC1
	5990+40	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
UPRR/SR 99-21WC SB	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
	505+00	610+00	WYE1
	610+00	619+50	EL2
	619+50	628+35	RF1
	628+35	714+80	AG4
	714+80	724+20	RF1
UPRR/SR 99-21WC SB	724+20	780+00	EL2
	780+00	846+94	WYE2
UPRR/SR 99-21WC SB	105+00	180+00	WYE1
	180+00	298+80	AG4
	298+80	313+21	RF1
	313+21	340+00	EL2
	340+00	397+52	WYE2

ALTERNATIVE BNSF AVENUE 21			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
BNSF-21ML	267+41	562+00	AG2
	562+00	582+61	RF2
	582+61	634+76	EL1
	634+76	665+80	RF2
	665+80	859+40	AG2
	859+40	881+05	RF2
	881+05	925+00	EL1
	925+00	985+00	WYE1
	985+00	1042+75	EL1
	1042+75	1060+00	RF2
	1060+00	1305+00	AG1
	1305+00	1685+00	AG2
	1685+00	1696+00	RF2
	1667+59	1731+50	EL1
	1731+50	1741+00	EL5
BNSF-FR			
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
BNSF-21WC NB			
	105+85	205+00	WYE2
	205+00	220+66	EL2
	220+66	230+00	RF1
	230+00	357+00	AG4
	357+00	371+02	RF1
	371+02	383+00	EL2
	383+00	474+09	WYE1
BNSF-21WC SB			
	500+00	550+00	WYE2
	550+00	720+00	AG4
	720+00	765+39	WYE1
BNSF-MC			
	4302+03	4345+02	EL2
	4345+02	4351+00	RF1
	4351+00	4405+00	WYE1
	4405+00	5296+45	AG1
	5269+45	5266+88	RF2
	5266+88	5352+88	EL3
	5352+88	5371+50	RF2
	5371+50	5850+85	AG1
	5850+85	5866+57	RF2
	5866+57	5960+00	EL1
	5960+00	5967+00	RF2
	5967+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
6052+50	6066+20	AG5	

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AG1- DOUBLE TRACK AT GRADE ADJACENT TO UPRR/BNSF



AG2 - DOUBLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

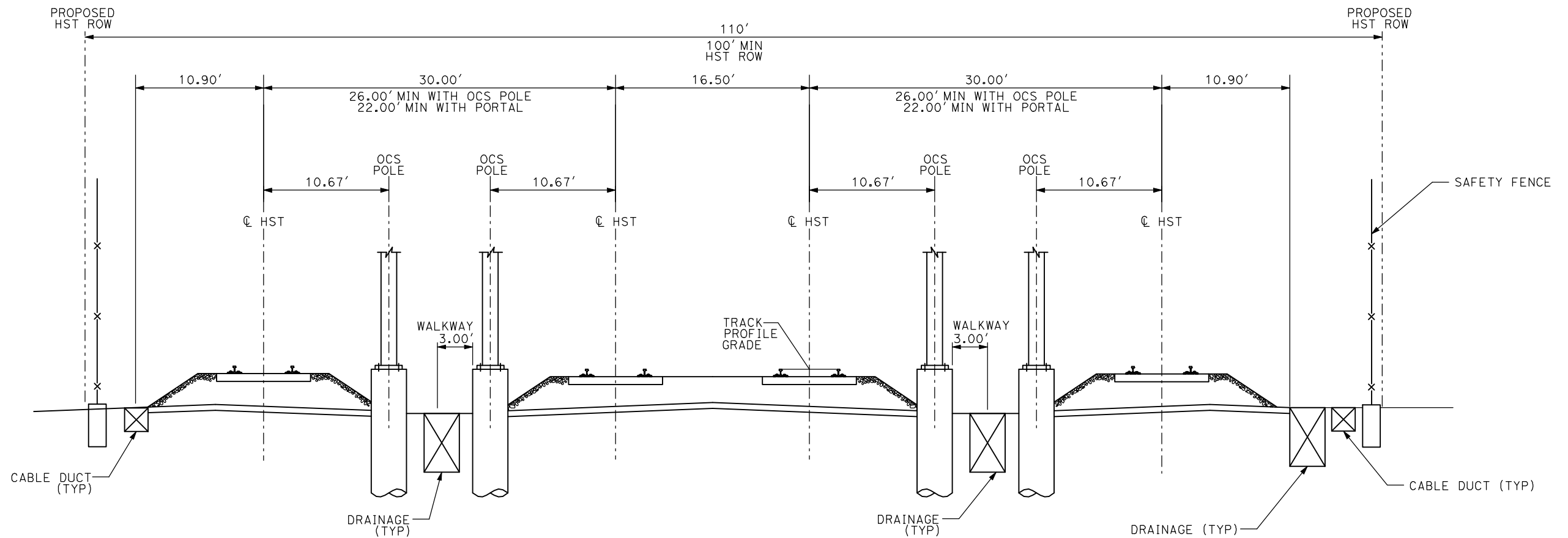


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

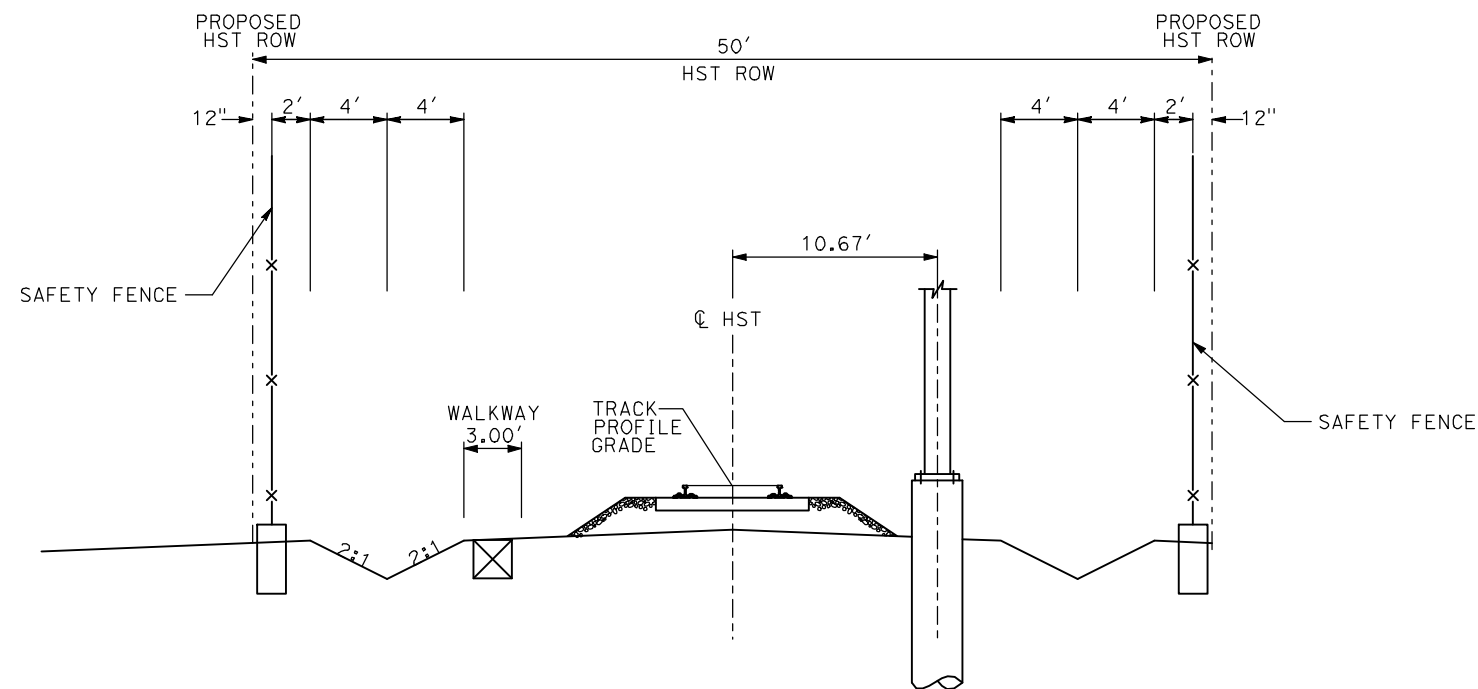
TYPICAL SECTIONS
SHEET 1 OF 17

CONTRACT NO.	HSR06-007
DRAWING NO.	T3001-A
SCALE	NO SCALE
SHEET NO.	OF ###

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ShieldsA



AG3 - 4 TRACK AT GRADE



AG4 - SINGLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

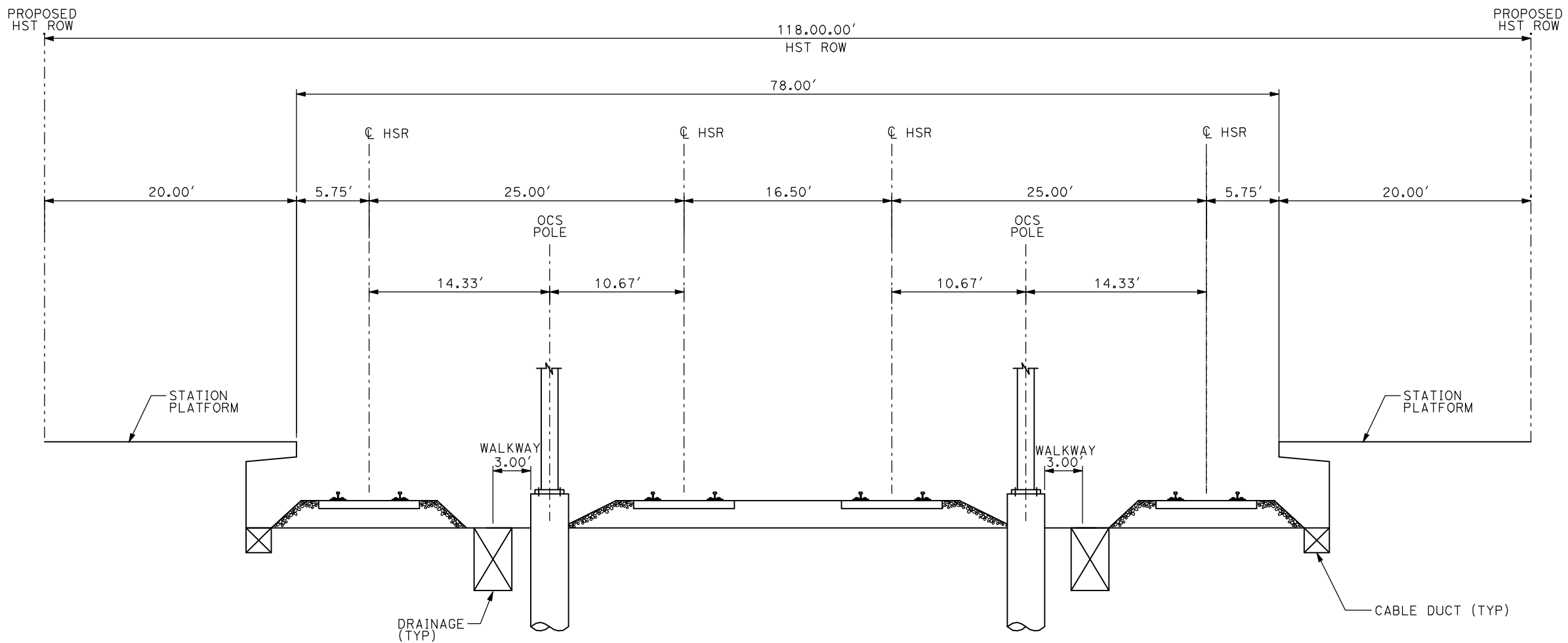
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 2 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3002-A
SCALE
NO SCALE
SHEET NO.
OF ###



AG5 - 4 TRACK AT GRADE MERCED STATION

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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ShieldsA

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

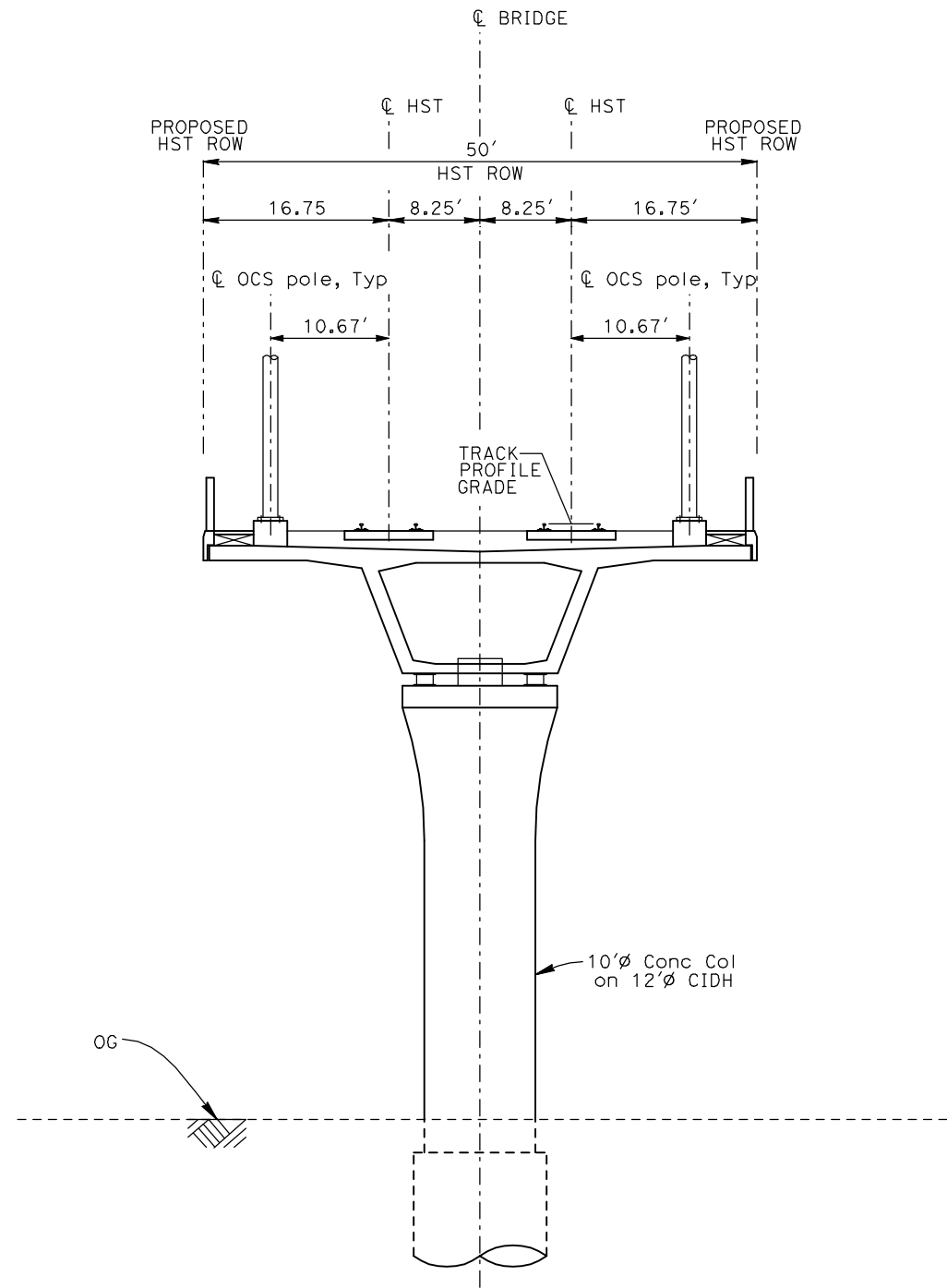


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

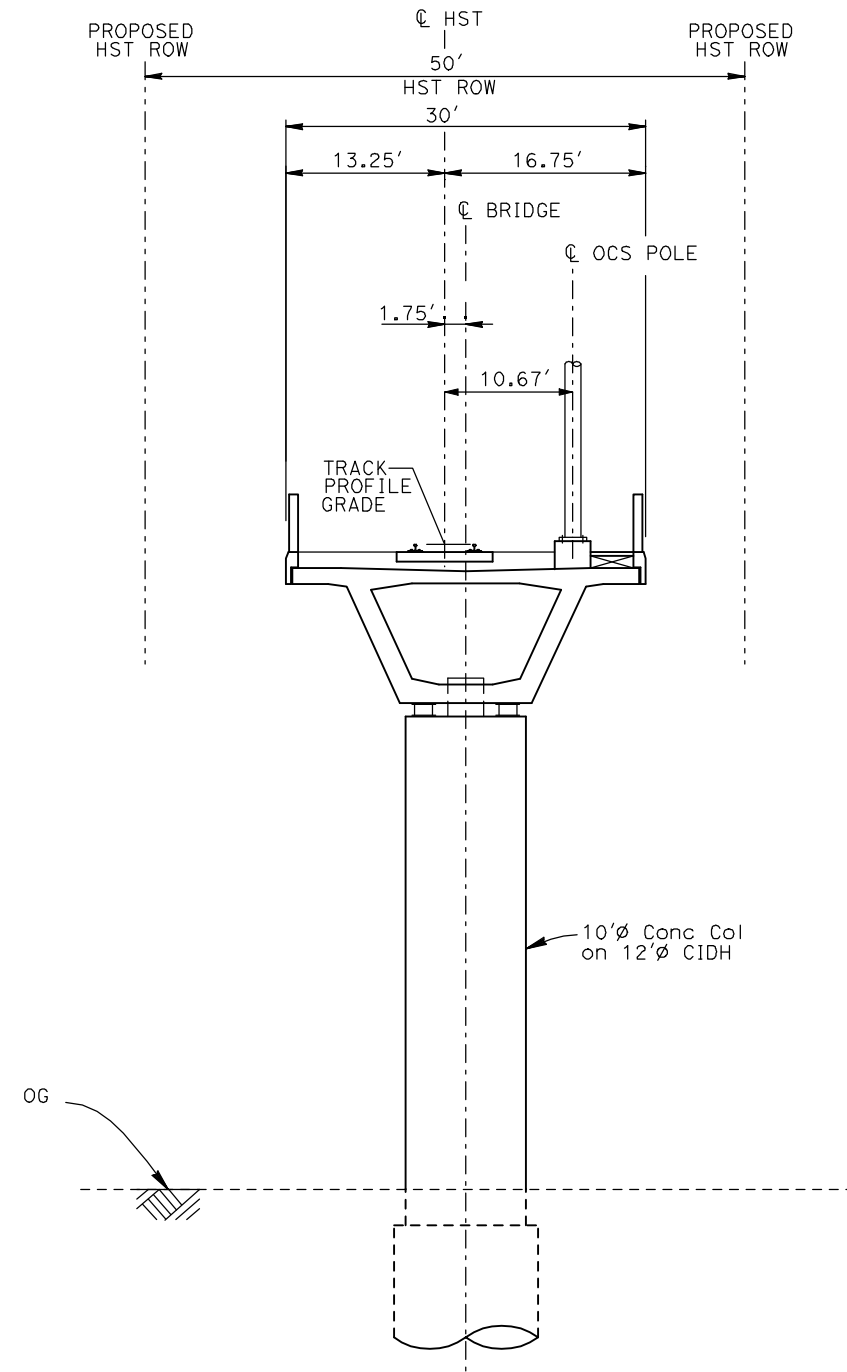
TYPICAL SECTIONS
SHEET 3 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3003-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



EL1 - DOUBLE TRACK ELEVATED



EL2 - SINGLE TRACK ELEVATED

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. BACK-TO-BACK CANTILEVERS ON A SINGLE POLE MAY BE PERMITTED AT PASSENGER STATIONS.
 3. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

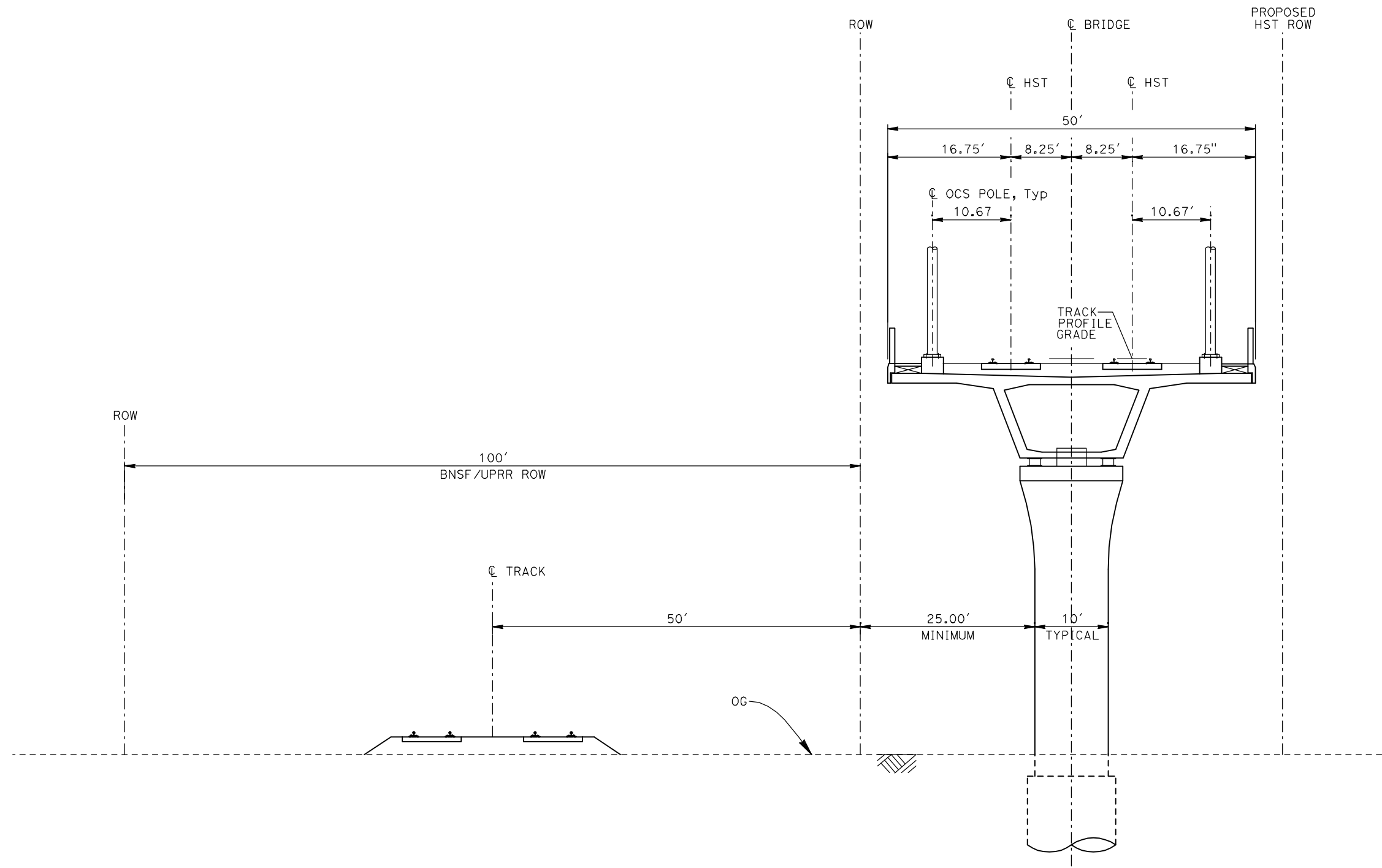


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 4 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3004-A
SCALE NO SCALE
SHEET NO. OF ###

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EL3 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



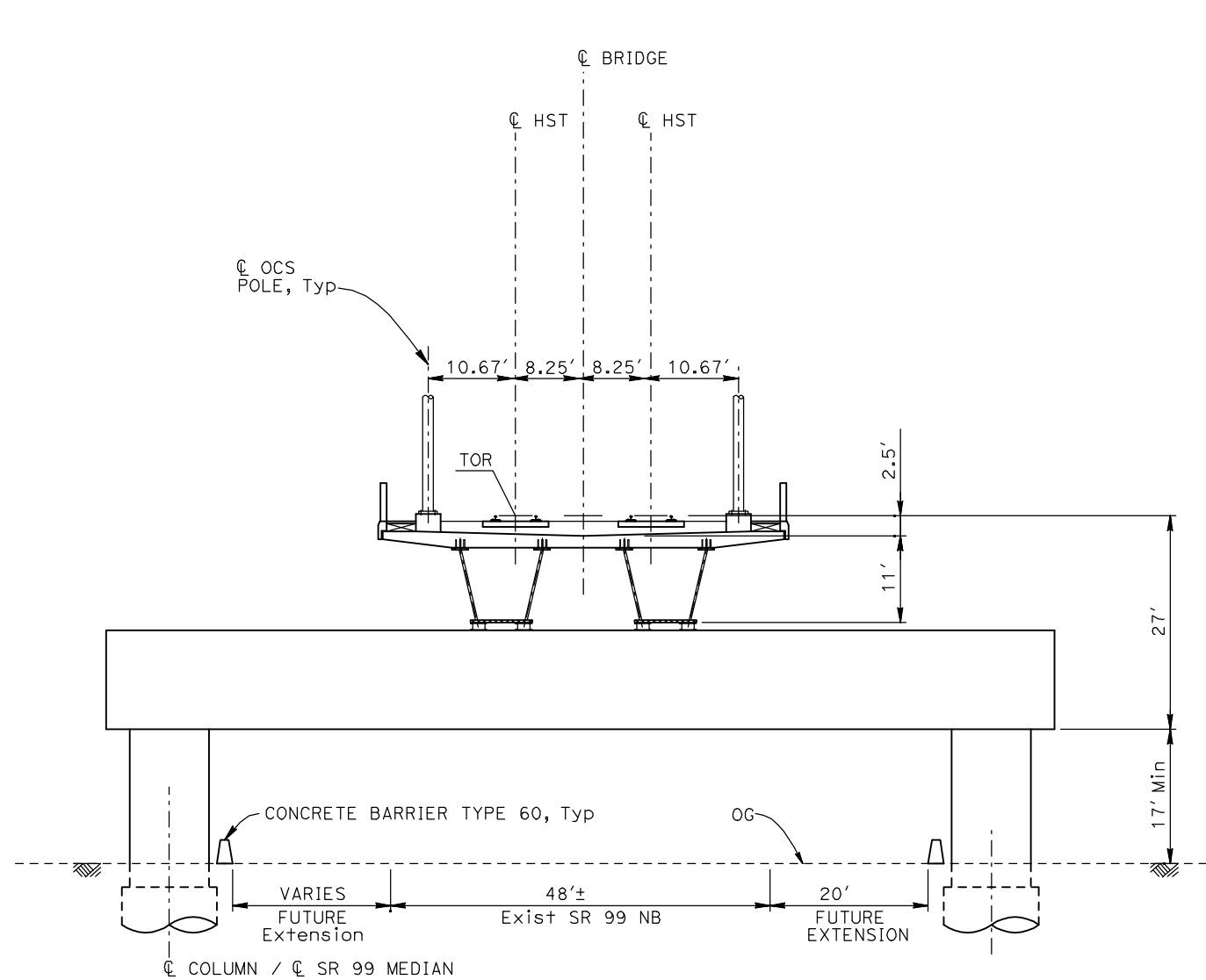
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 5 OF 17

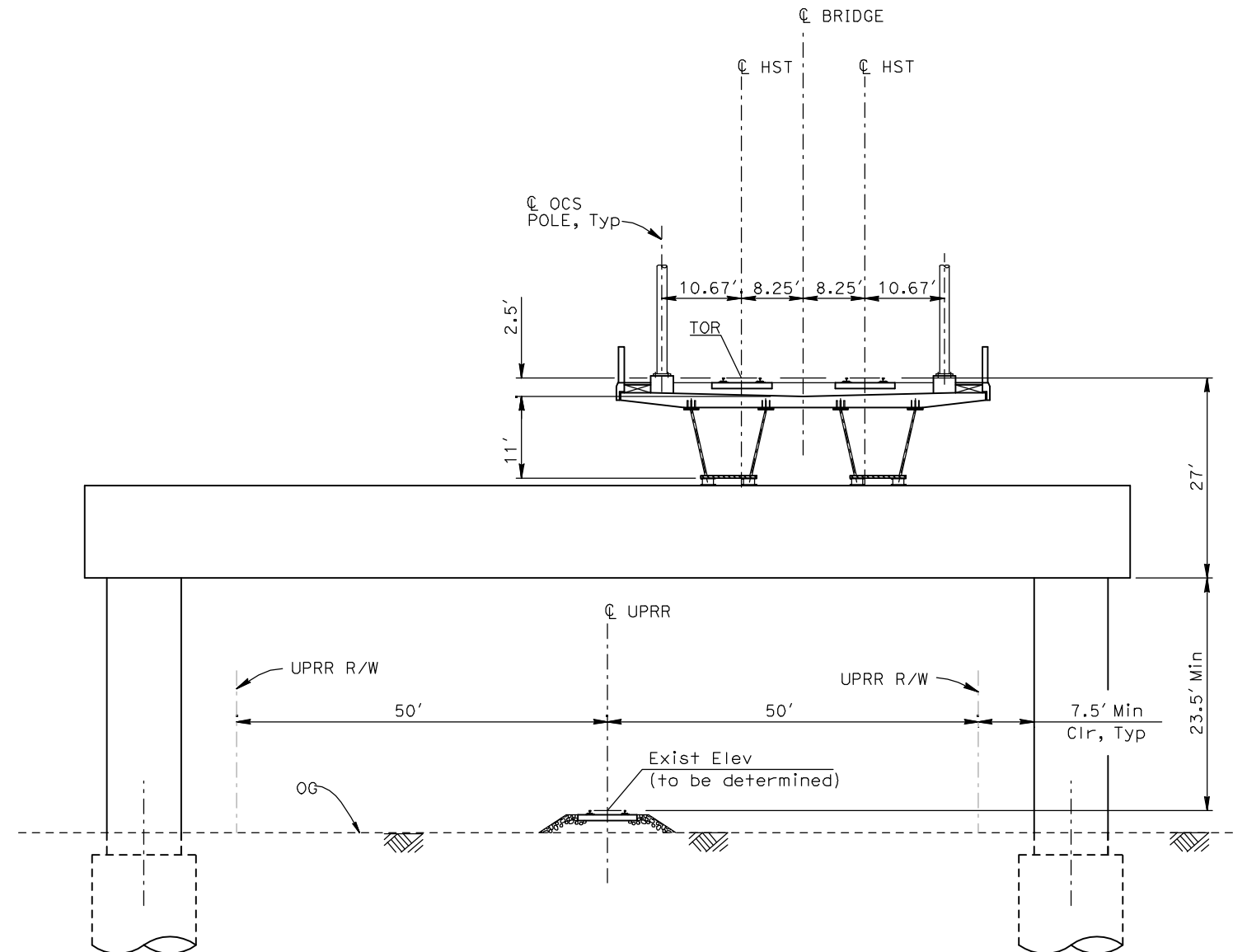
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HSR06-007
DRAWING NO.
T3005-A
SCALE
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SHEET NO.
OF ###

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ShieldsA



EL4 - DOUBLE TRACK ELEVATED CROSSING SR99



EL5 - DOUBLE TRACK ELEVATED CROSSING UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

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CONSTRUCTION**



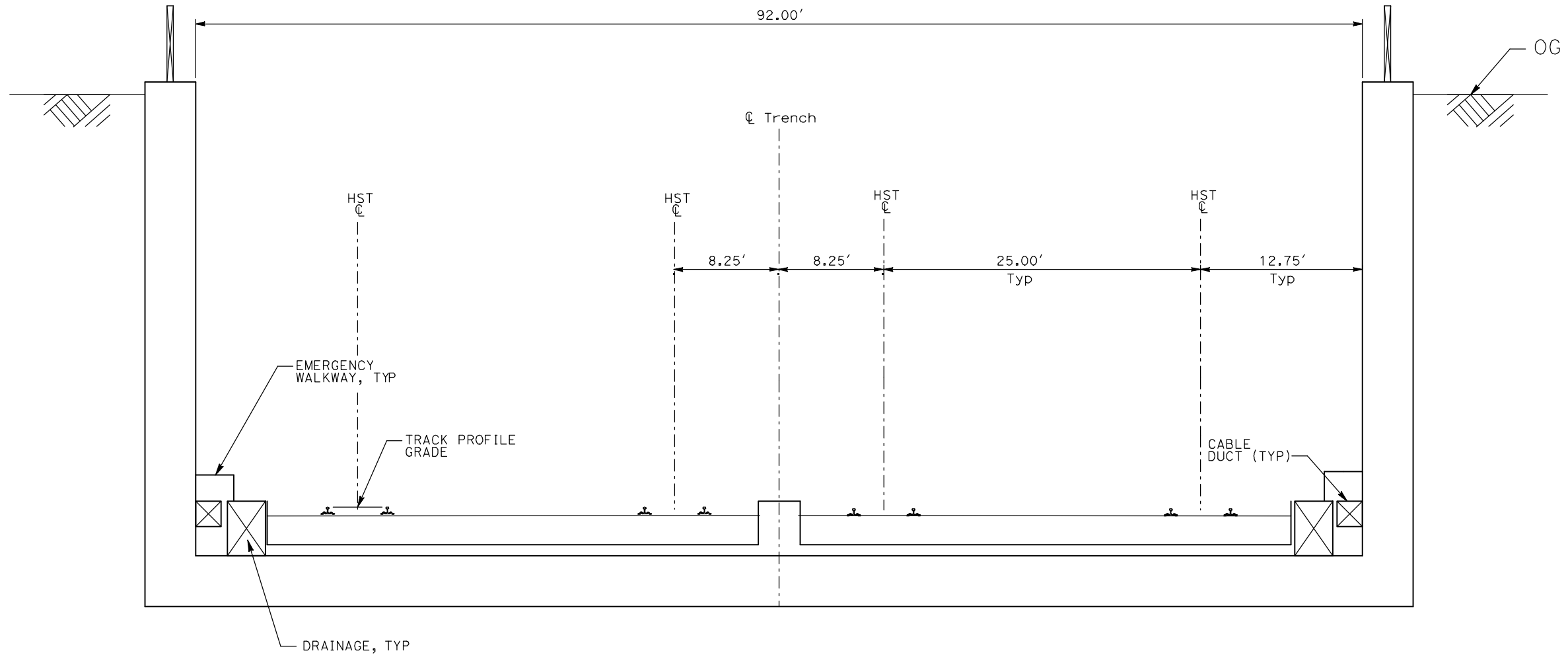
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 6 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3006-A
SCALE NO SCALE
SHEET NO. OF ###

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ShieldsA



TR1 - 4 TRACK TRENCH STATION APPROACH

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



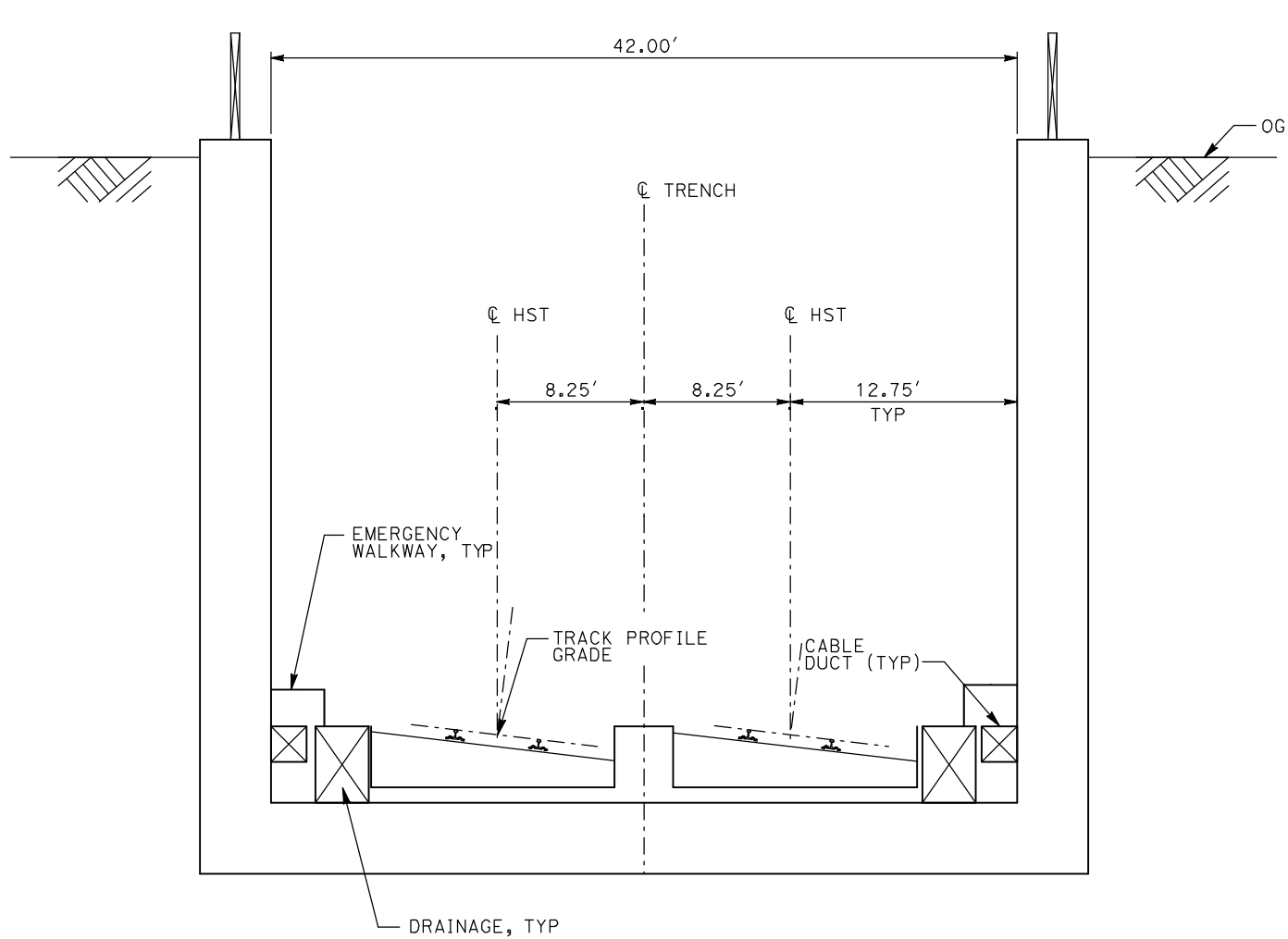
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 7 OF 17

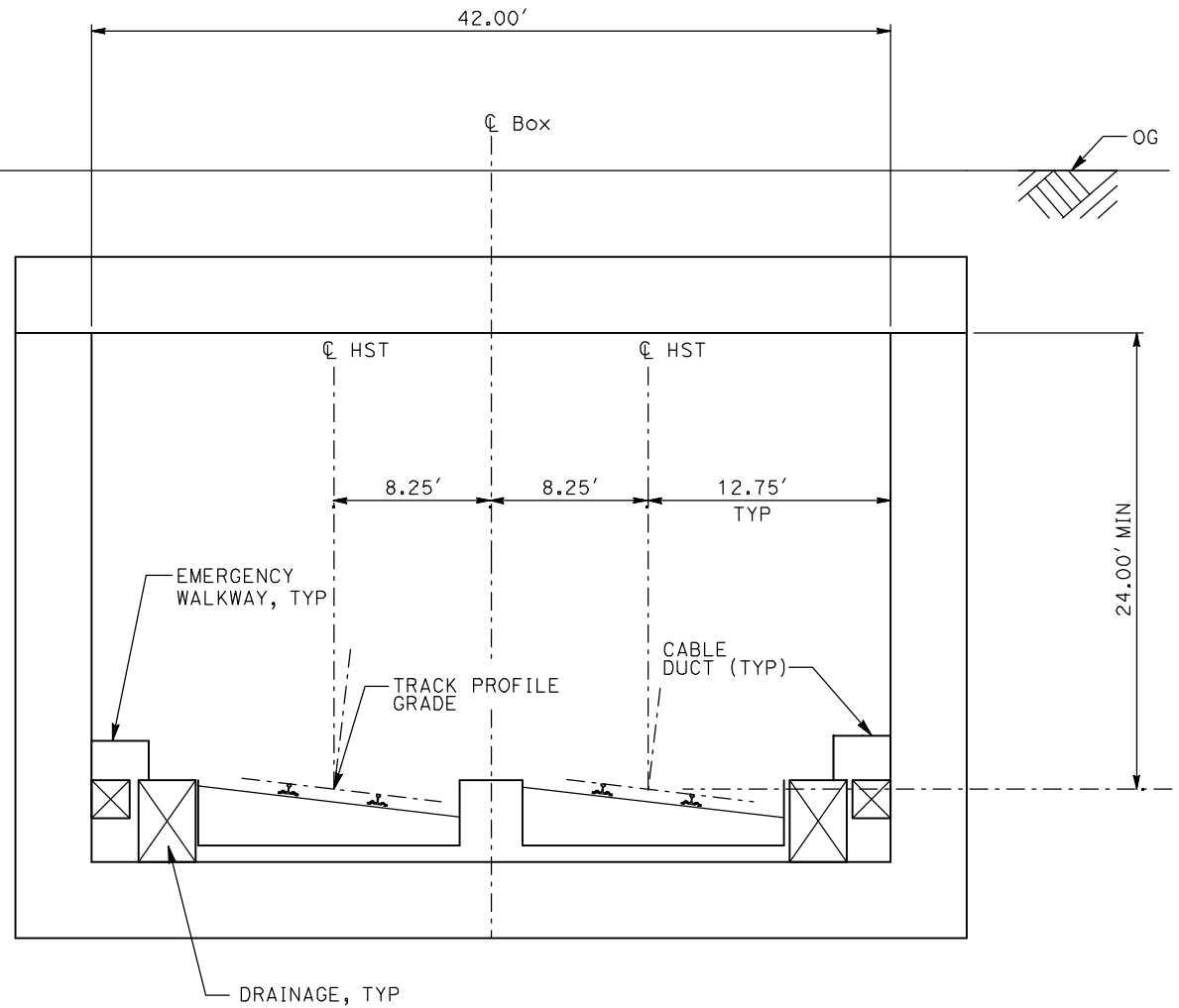
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HSR06-007
DRAWING NO.
T3007-A
SCALE
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OF ###

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ShieldsA



TR2 - 2 TRACK TRENCH



CC1 - 2 TRACK CUT AND COVER CLOSED BOX

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

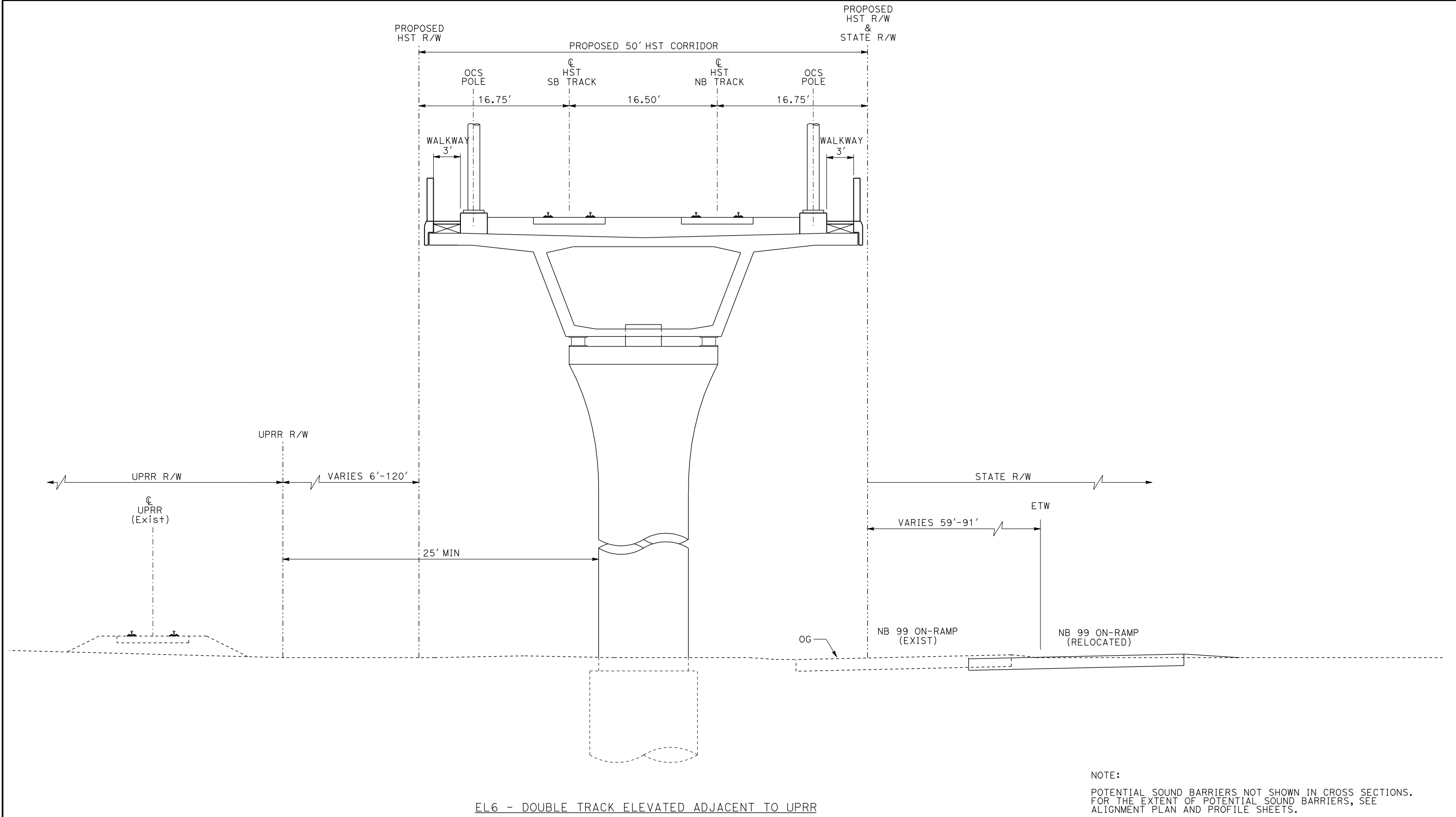


**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 8 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3008-A
SCALE
NO SCALE
SHEET NO.
OF ###



EL6 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION



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Sacramento, CA 95811



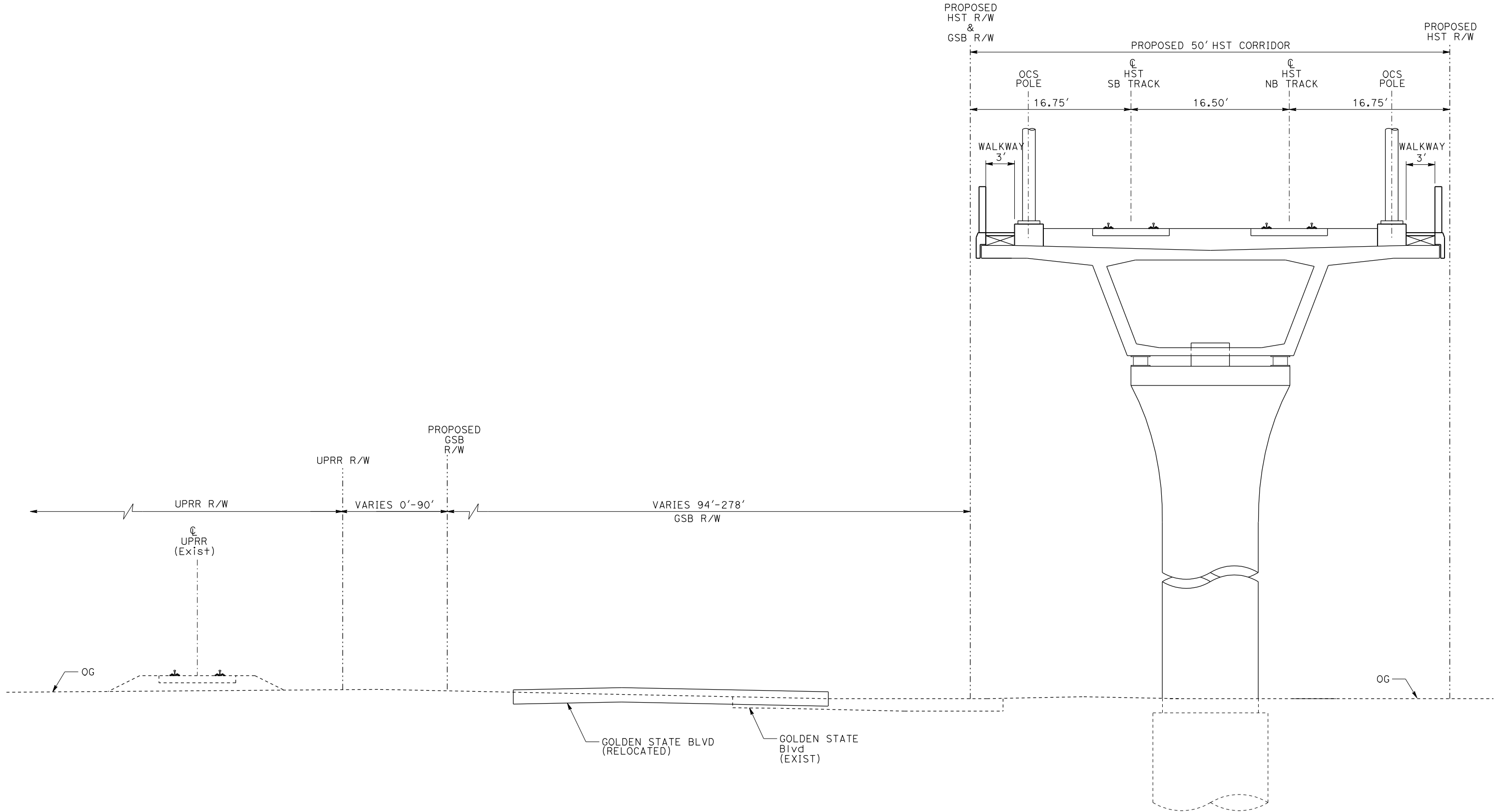


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 9 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3009-A
SCALE NO SCALE
SHEET NO.



EL7 - DOUBLE TRACK ELEVATED ADJACENT TO GOLDEN STATE BOULEVARD

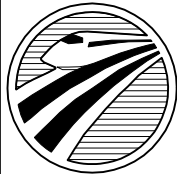
NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

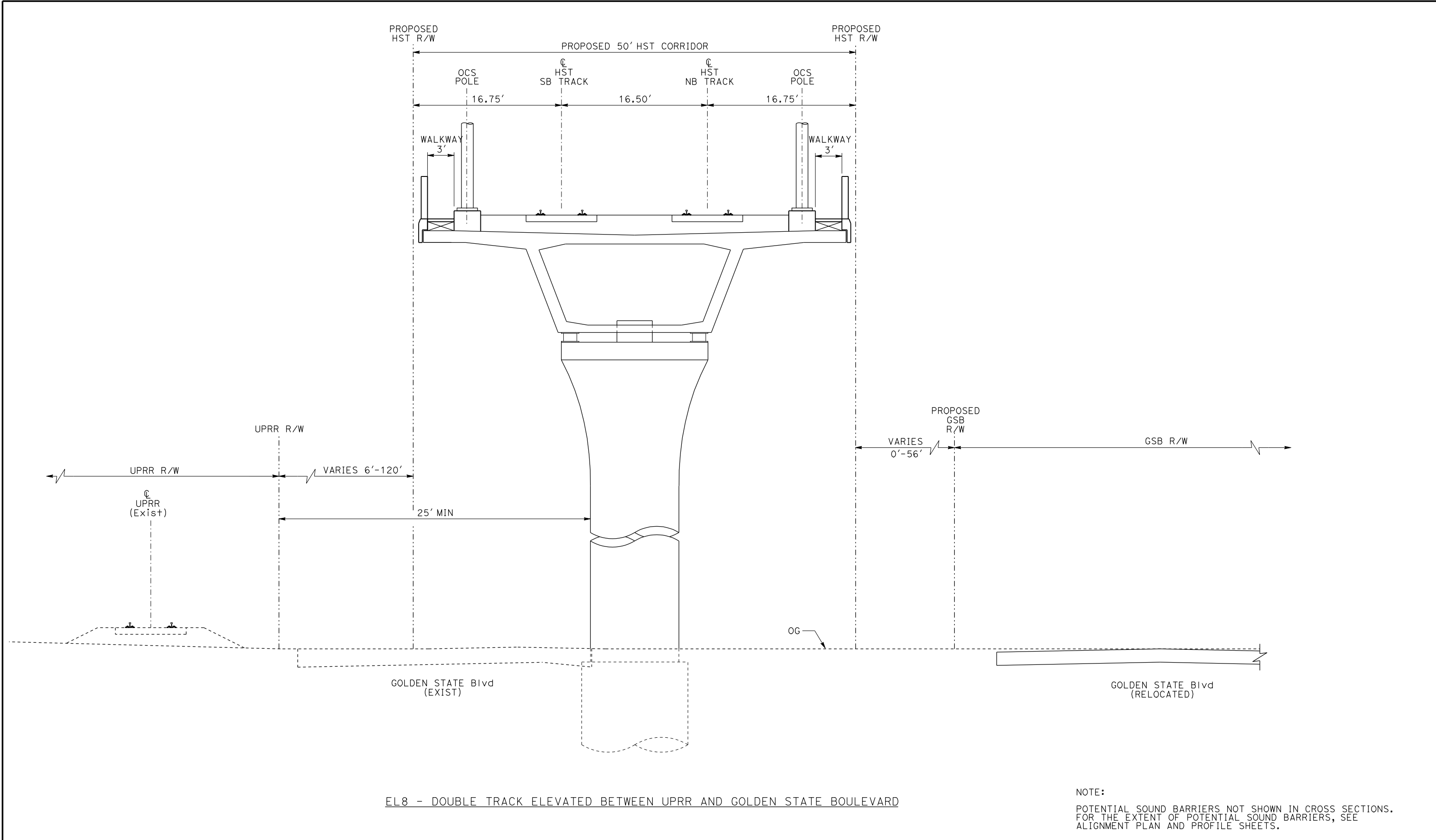


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 10 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3010-A
SCALE NO SCALE
SHEET NO.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

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Sacramento, CA 95811

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

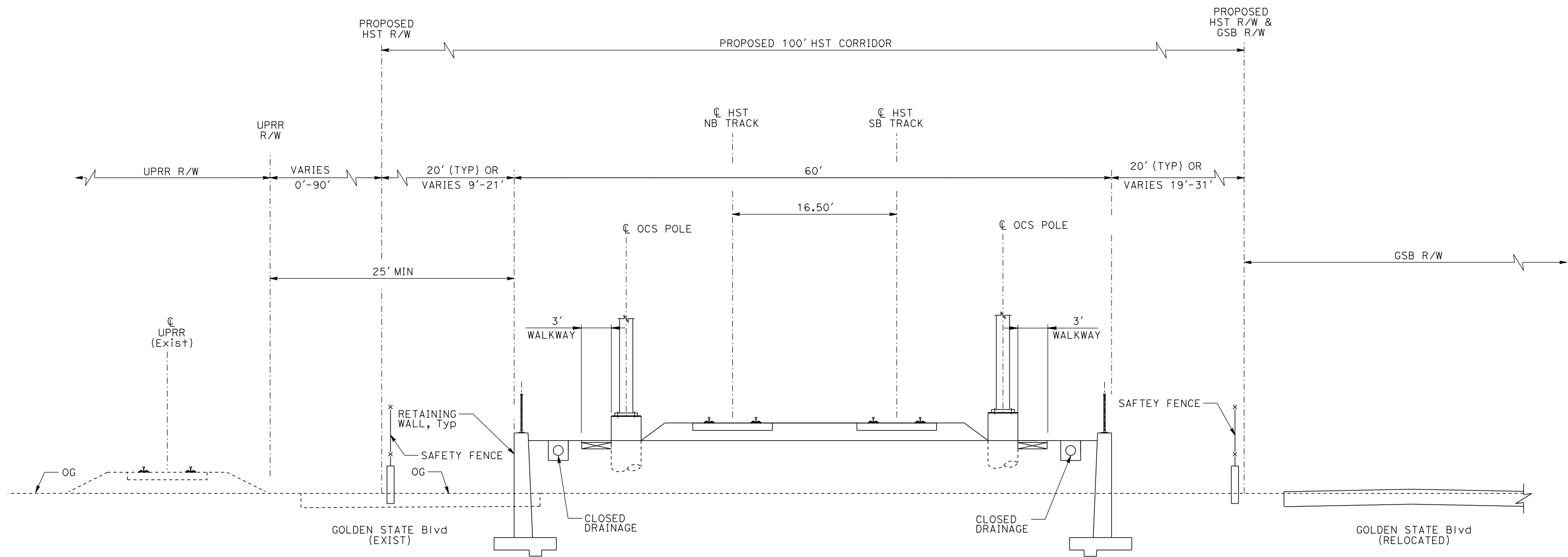
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO	
TYPICAL SECTIONS SHEET 11 OF 17	

CONTRACT NO. HSR06-007
DRAWING NO. T3011-A
SCALE NO SCALE
SHEET NO.

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

USERNAME => lwebster
DGN FILE => MF-T-3011-A1-E1R.dgn

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:45



RF3 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

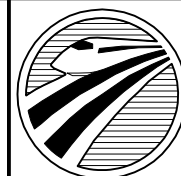
DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

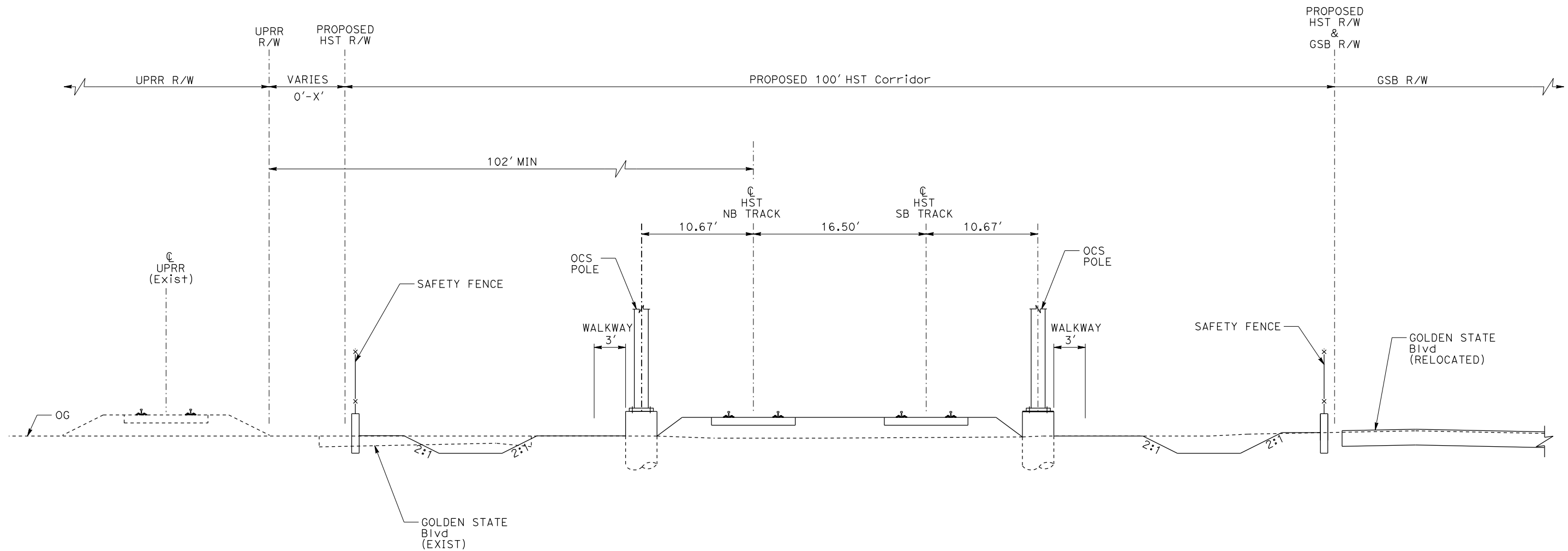


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTION
SHEET 12 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3012-A
SCALE NO SCALE
SHEET NO.



AG6 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

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Technical Services, Inc.
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Sacramento, CA 95811

CH2MHILL



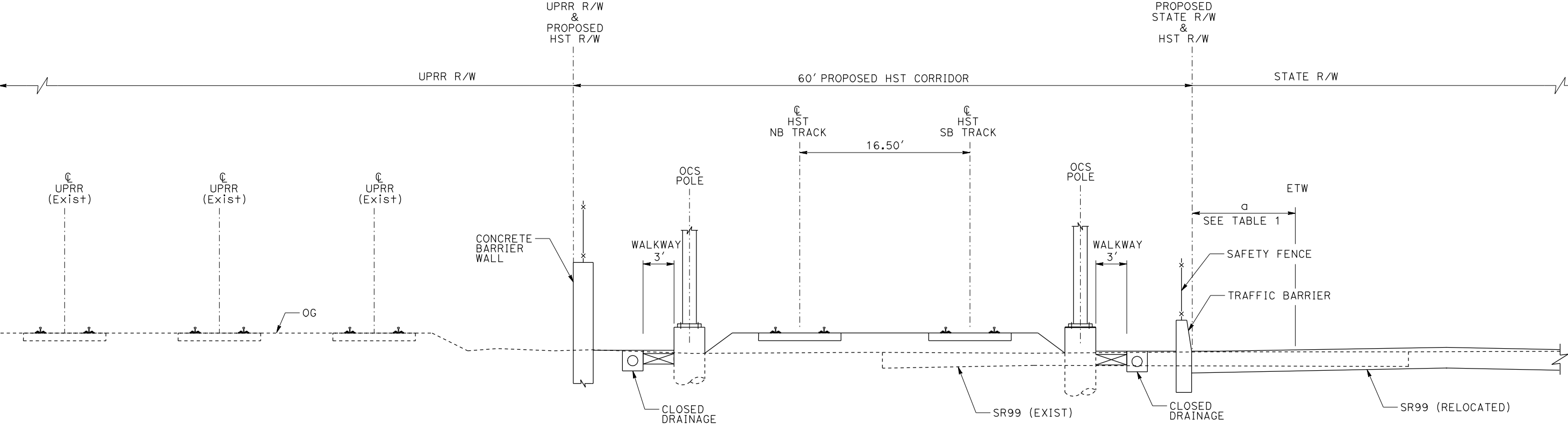
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTION
SHEET 13 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3013-A
SCALE NO SCALE
SHEET NO.


TABLE 1

a > 30'	NO TRAFFIC BARRIER
4' < a < 30'	TRAFFIC BARRIER



AG7 - DOUBLE TRACK BETWEEN UPRR AND STATE ROUTE 99

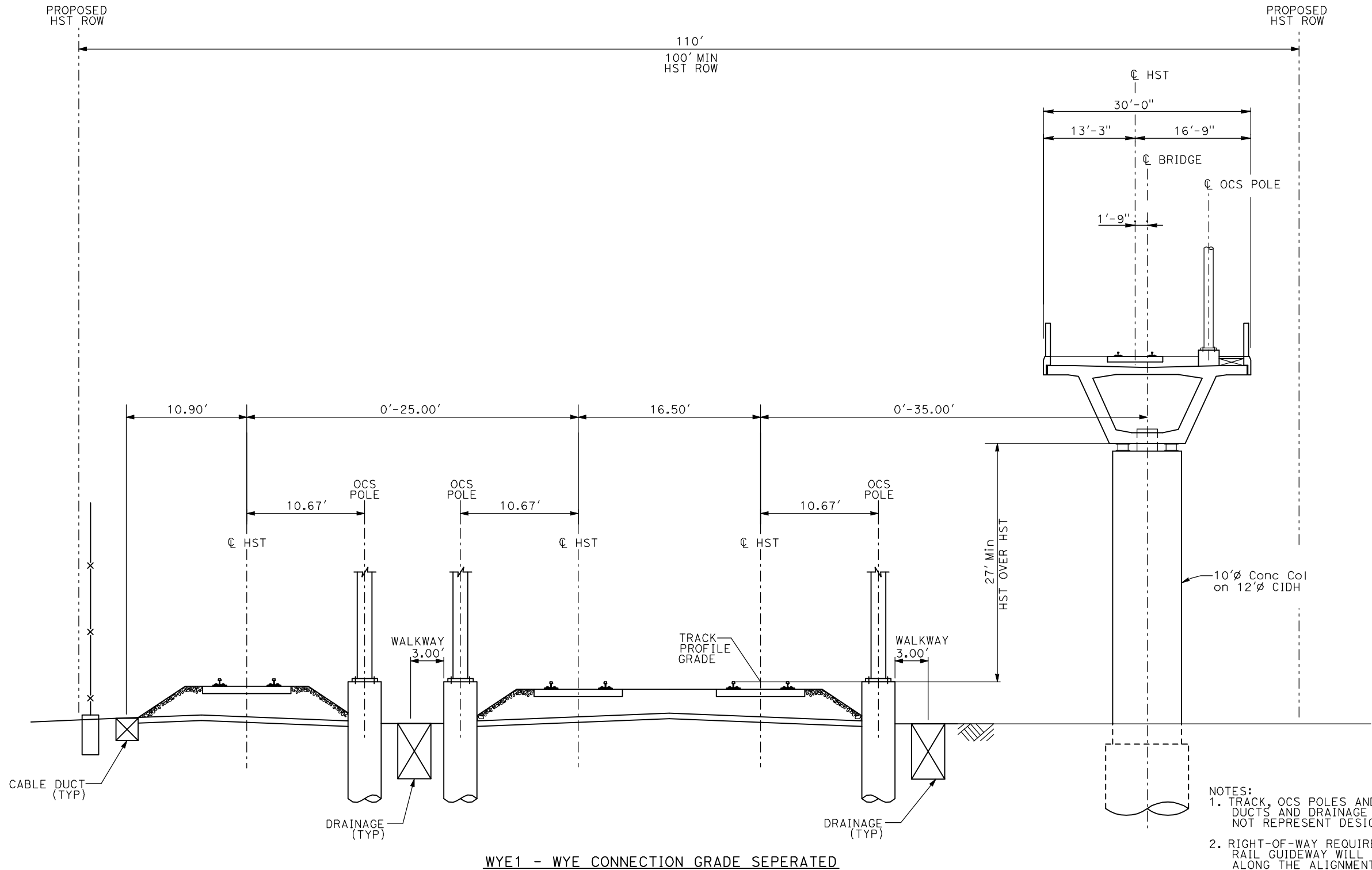
NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

					DESIGNED BY L. PROCTOR	RECORD SET 15% DESIGN SUBMITTAL	AECOM <small>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</small>		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO	CONTRACT NO. HSR06-007
					DRAWN BY S. LEONG					DRAWING NO. T3014-A
					CHECKED BY V. CHIO					SCALE NO SCALE
					IN CHARGE J. VALSECCHI					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE JULY 2011				USERNAME => lwebster DGN FILE => MF-T-3014-A1-E1R.dgn

DATE PLOTTED => 21-JUL-2011
TIME PLOTTED => 12:56

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ShieldsA



- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

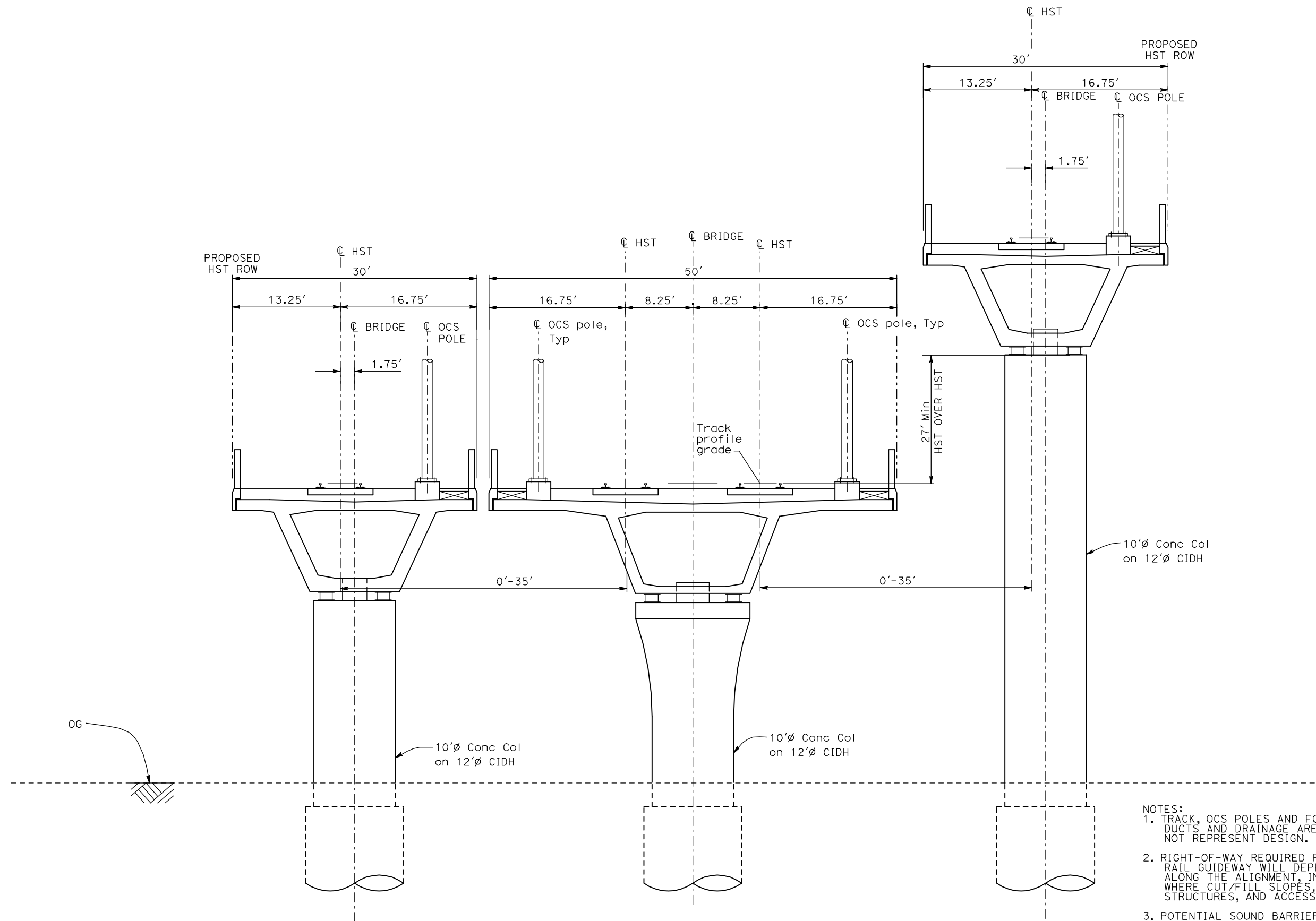


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 15 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3015-A
SCALE
NO SCALE
SHEET NO.
OF ###

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- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
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WYE2 - WYE CONNECTION GRADE SEPERATED

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

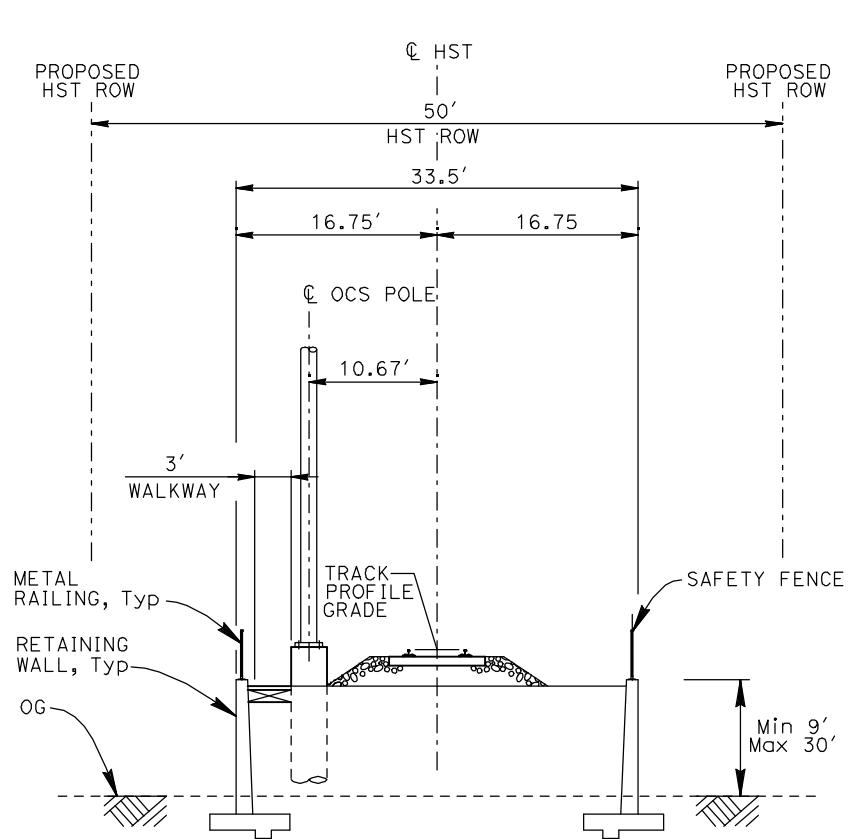
TYPICAL SECTIONS
SHEET 16 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3016-A
SCALE
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OF ###

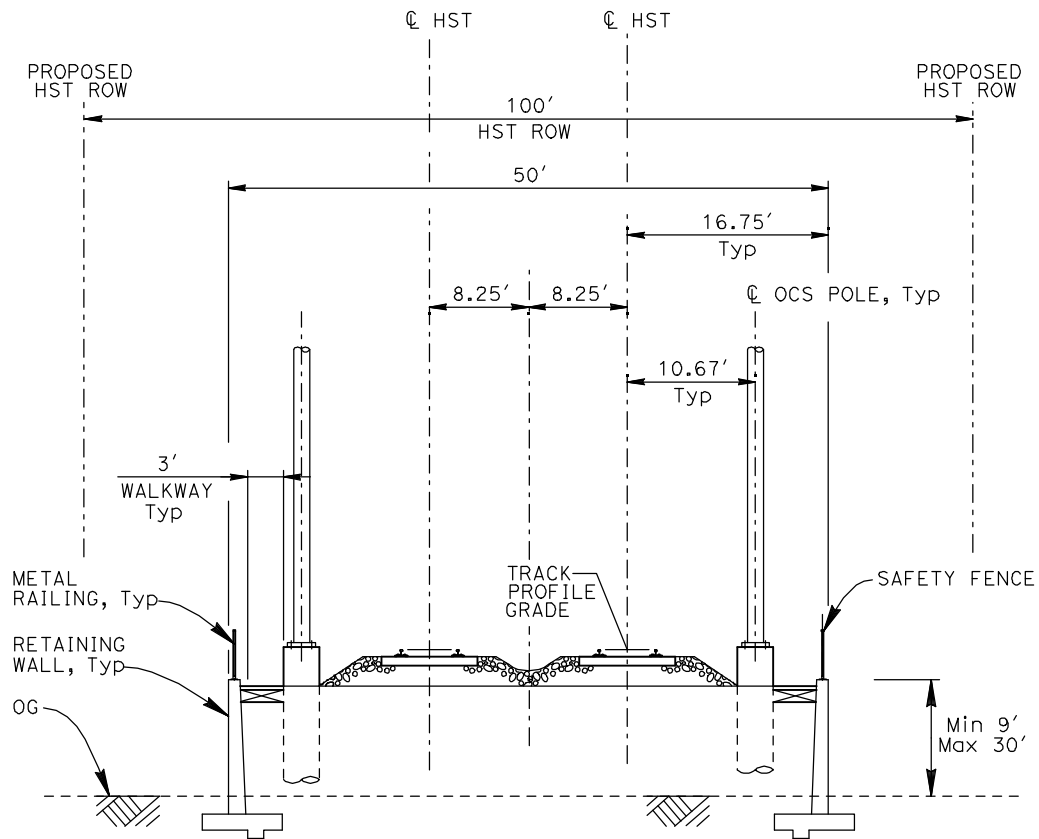
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ShieldsA

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RF1 - SINGLE TRACK RETAINED FILL



RF2 - DOUBLE TRACK RETAINED FILL

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

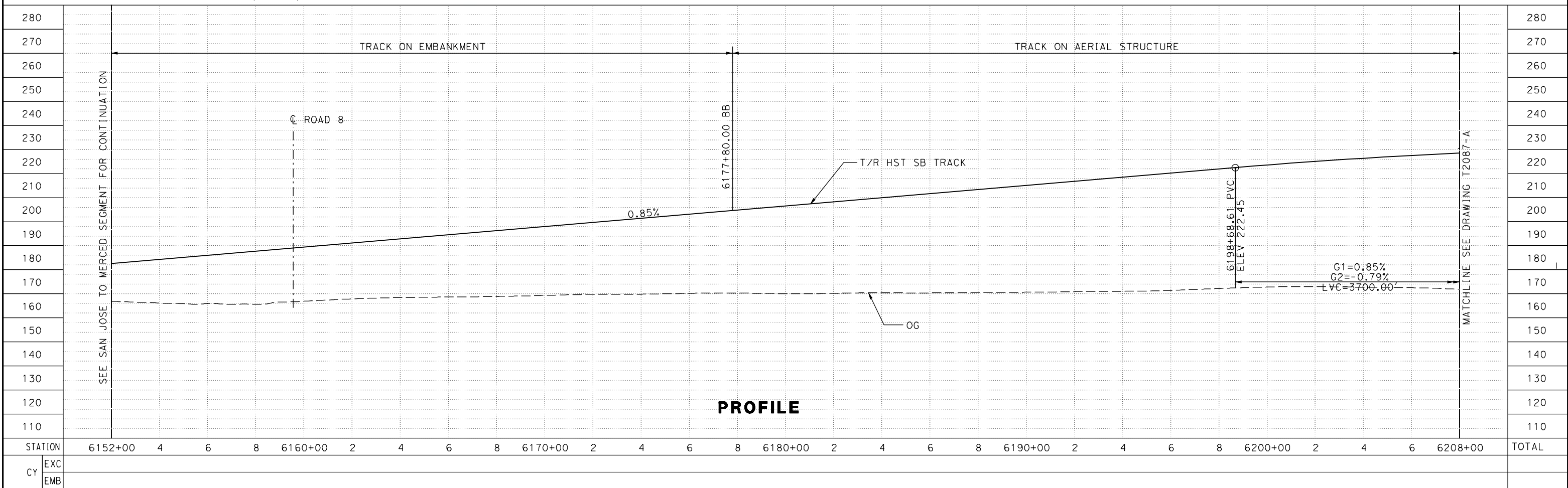
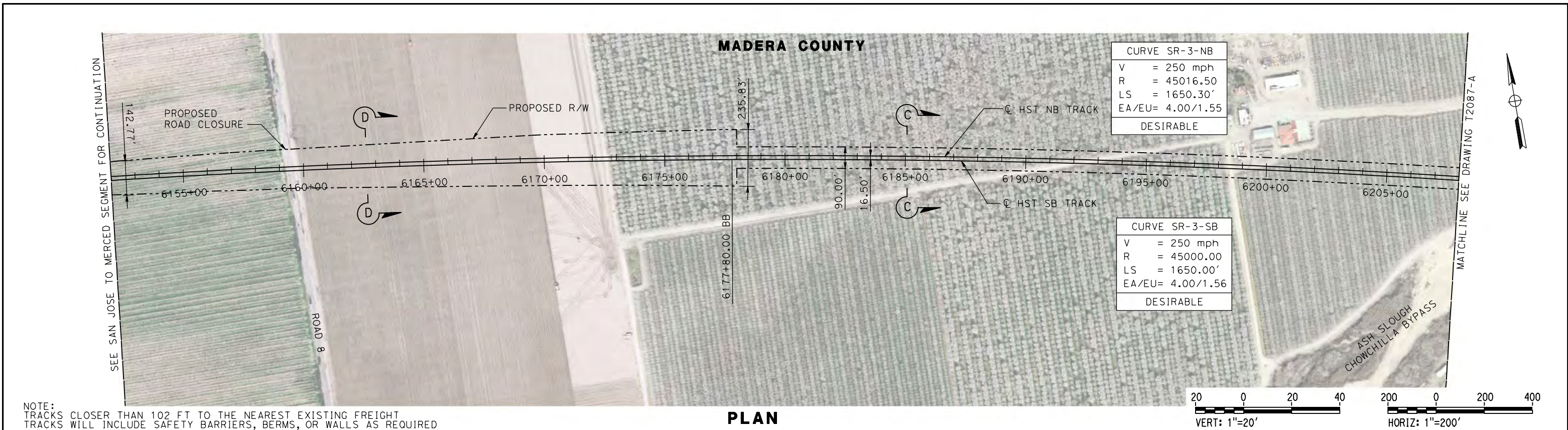
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO



TYPICAL SECTIONS
SHEET 17 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3017-A
SCALE NO SCALE
SHEET NO. OF ###

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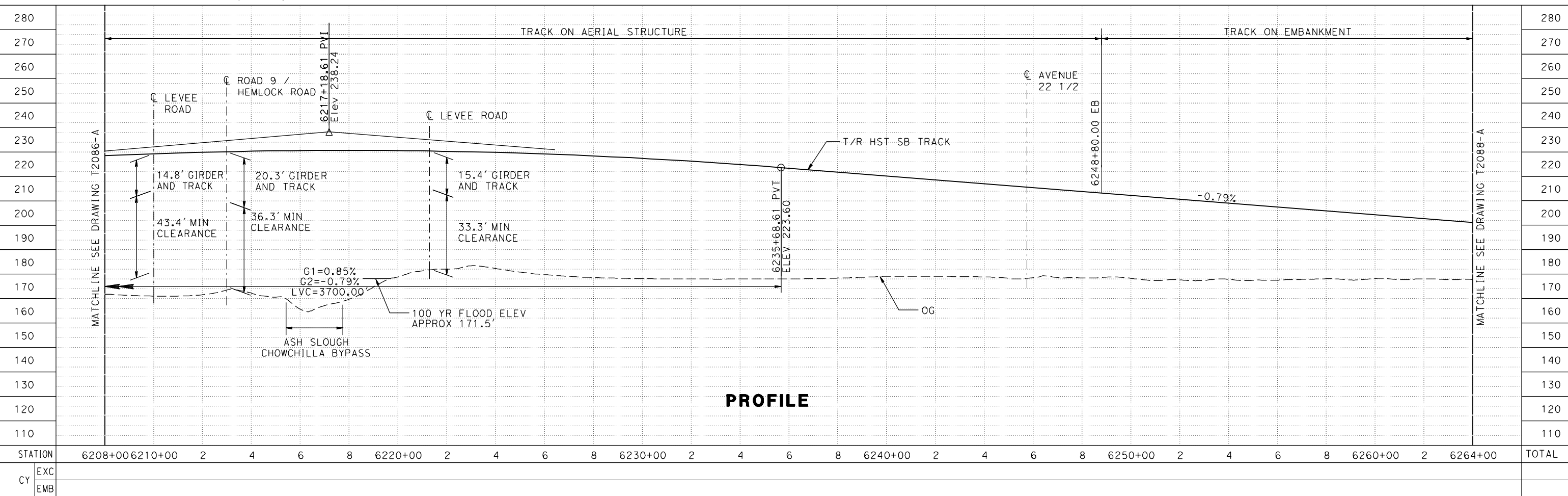
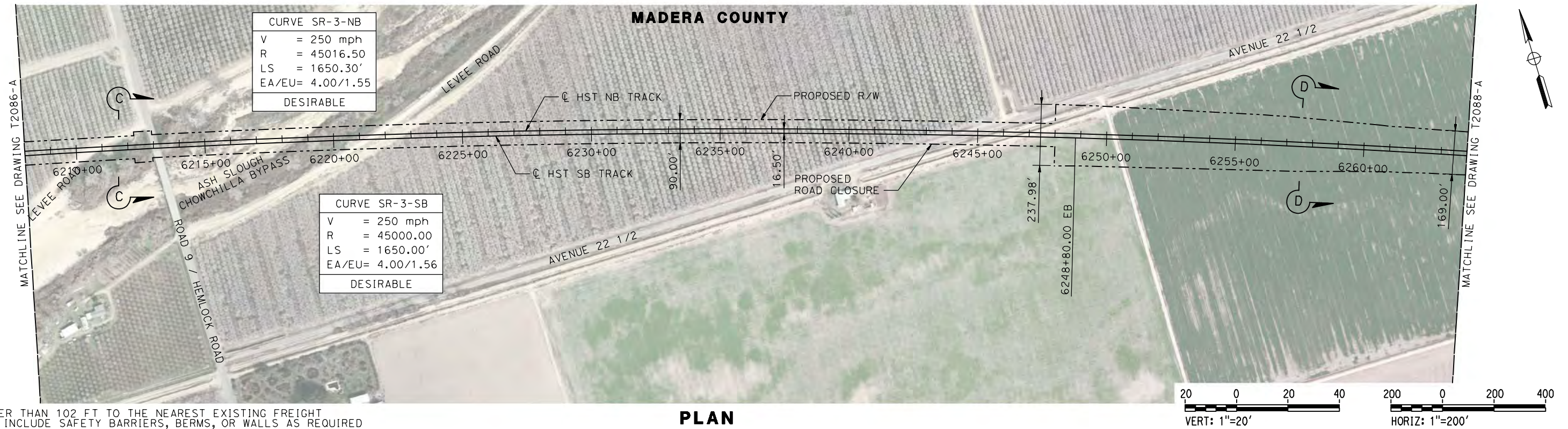
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DESIGNED BY P. JACOBY	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 24/SR152/AVENUE 21 TRACK PLAN AND PROFILE STA 6152+00 TO STA 6208+00	CONTRACT NO. HSR08-05
DRAWN BY ALBERT S.					DRAWING NO. T2086-A
CHECKED BY RESHMA C.					SCALE AS SHOWN
IN CHARGE D. WEMMER					SHEET NO.
DATE 4/15/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION

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DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

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CONSTRUCTION**



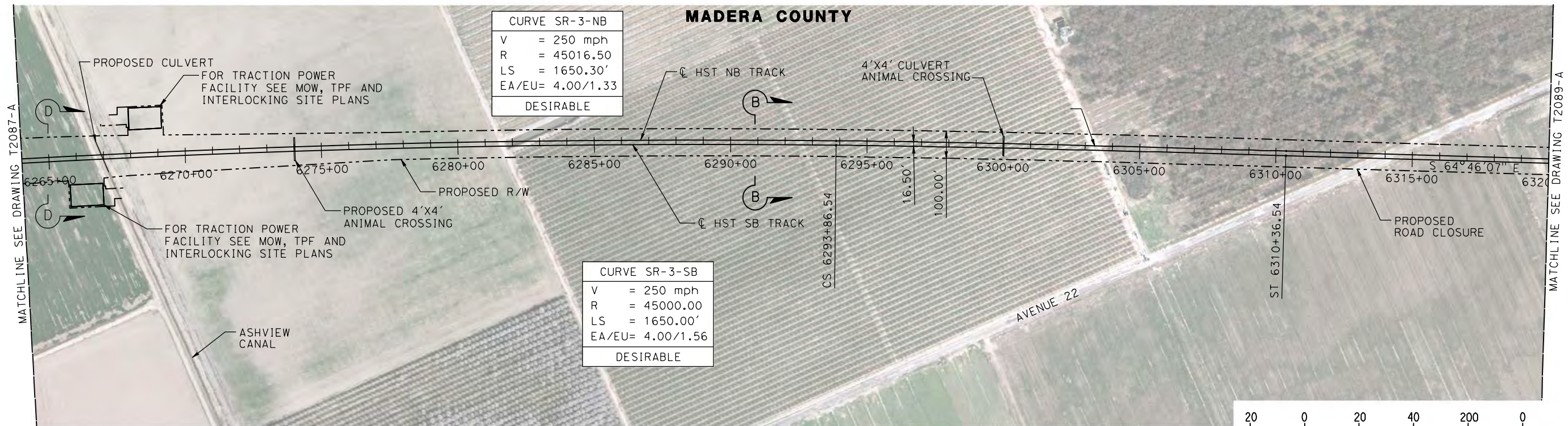
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24/SR152/AVENUE 21
TRACK PLAN AND PROFILE
STA 6208+00 TO STA 6264+00

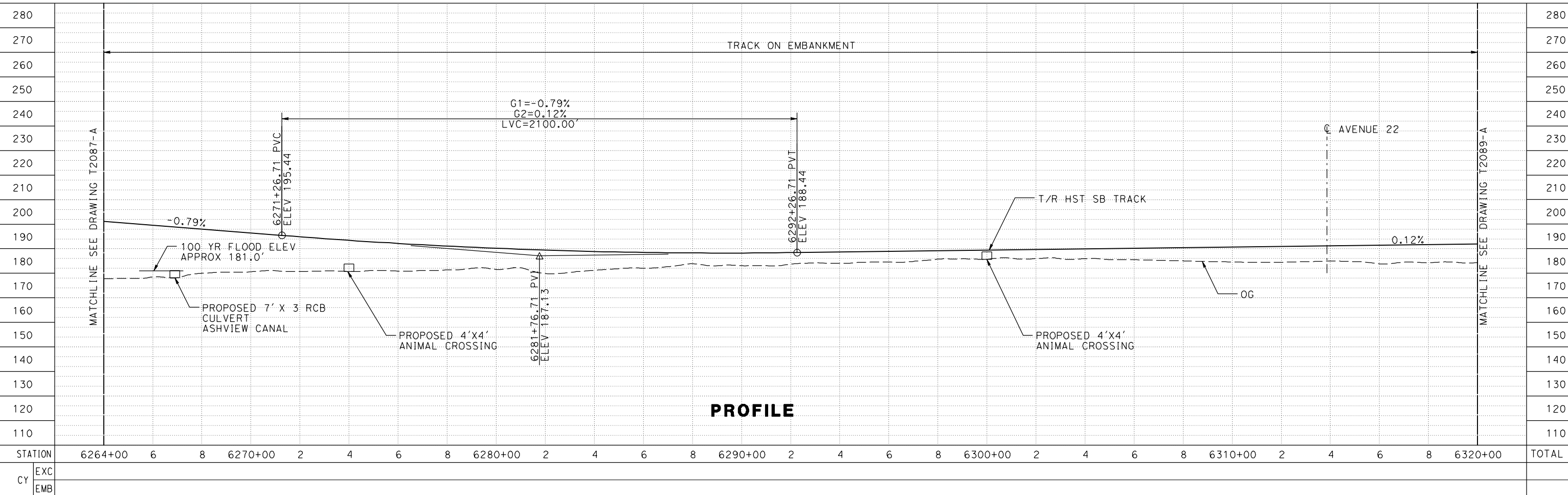
CONTRACT NO.
HSR08-05
DRAWING NO.
T2087-A
SCALE
AS SHOWN
SHEET NO.

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p0039764



PLAN



DESIGNED BY
P. JACOBY
DRAWN BY
ALBERT S.
CHECKED BY
RESHMA C.
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

**NOT FOR
CONSTRUCTION**



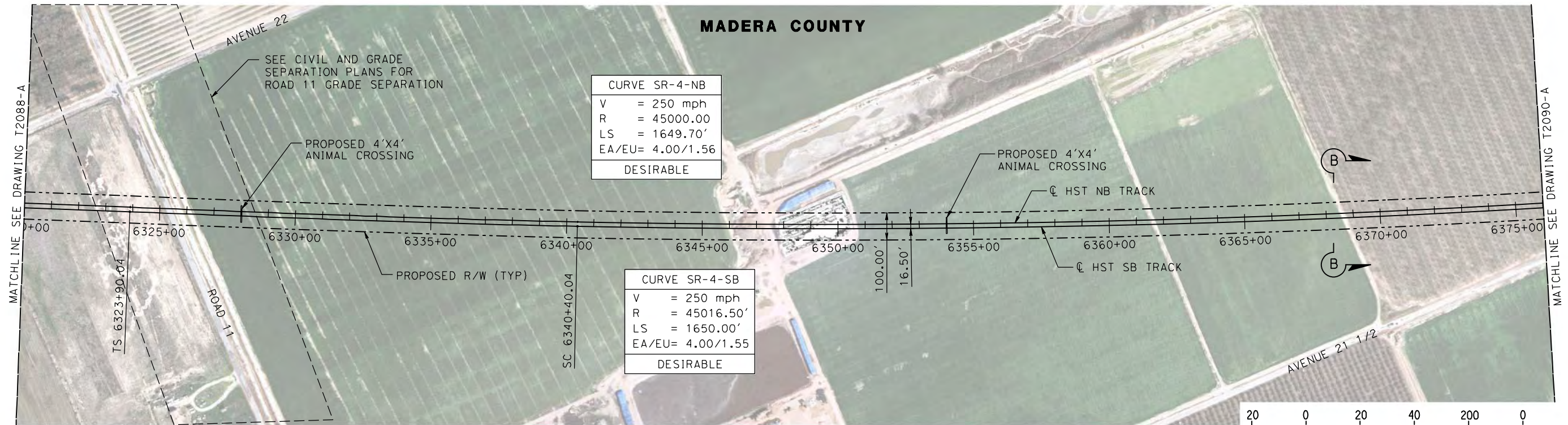
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24/SR152/AVENUE 21
TRACK PLAN AND PROFILE
STA 6264+00 TO STA 6320+00

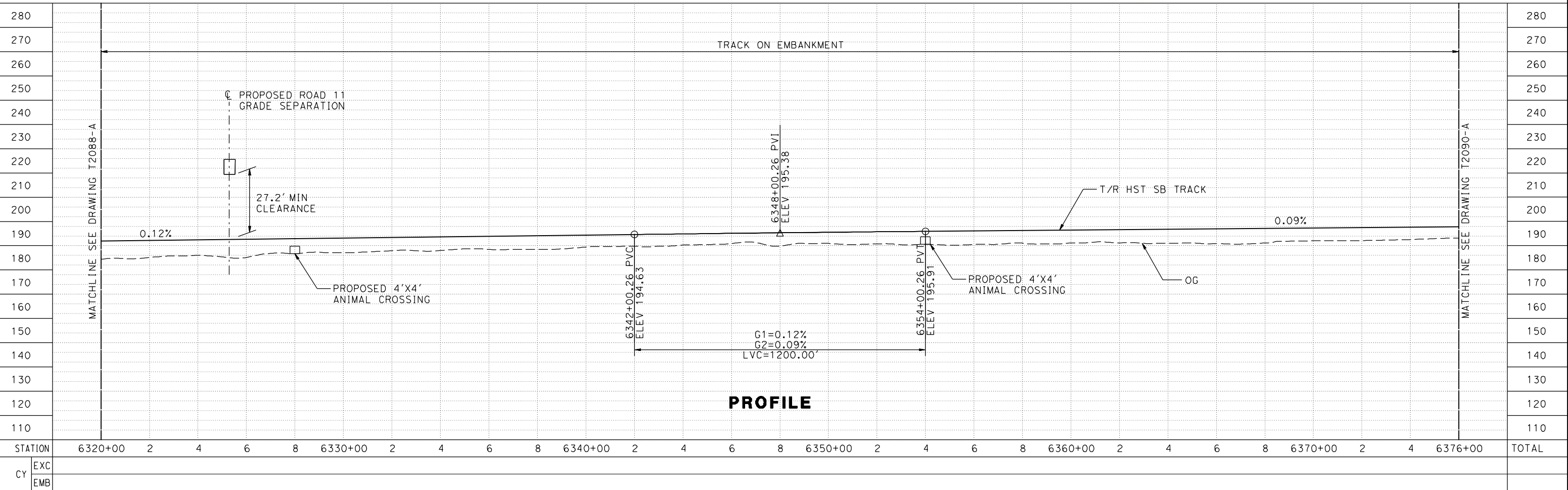
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DRAWING NO.
T2088-A
SCALE
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SHEET NO.

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PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
P. JACOBY

DRAWN BY
ALBERT S.

CHECKED BY
RESHMA C.

IN CHARGE
D. WEMMER

DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

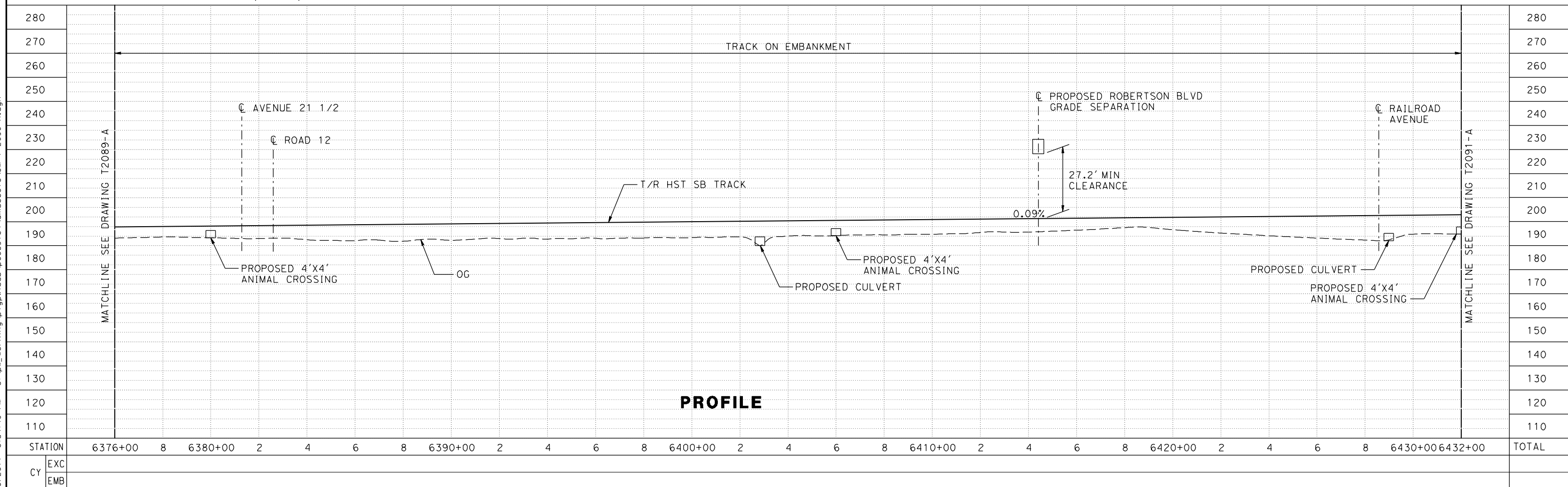
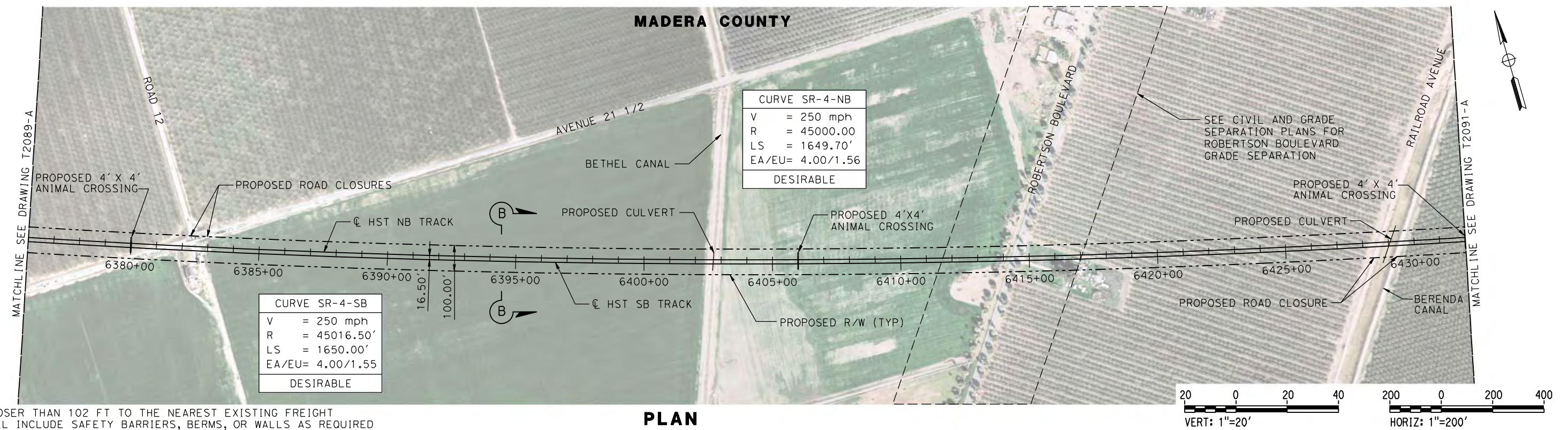
BNSF MAIN LINE
AVENUE 24/SR152/AVENUE 21
TRACK PLAN AND PROFILE
STA 6320+00 TO STA 6376+00



CONTRACT NO.
HSR08-05

DRAWING NO.
T2089-A

SCALE
AS SHOWN

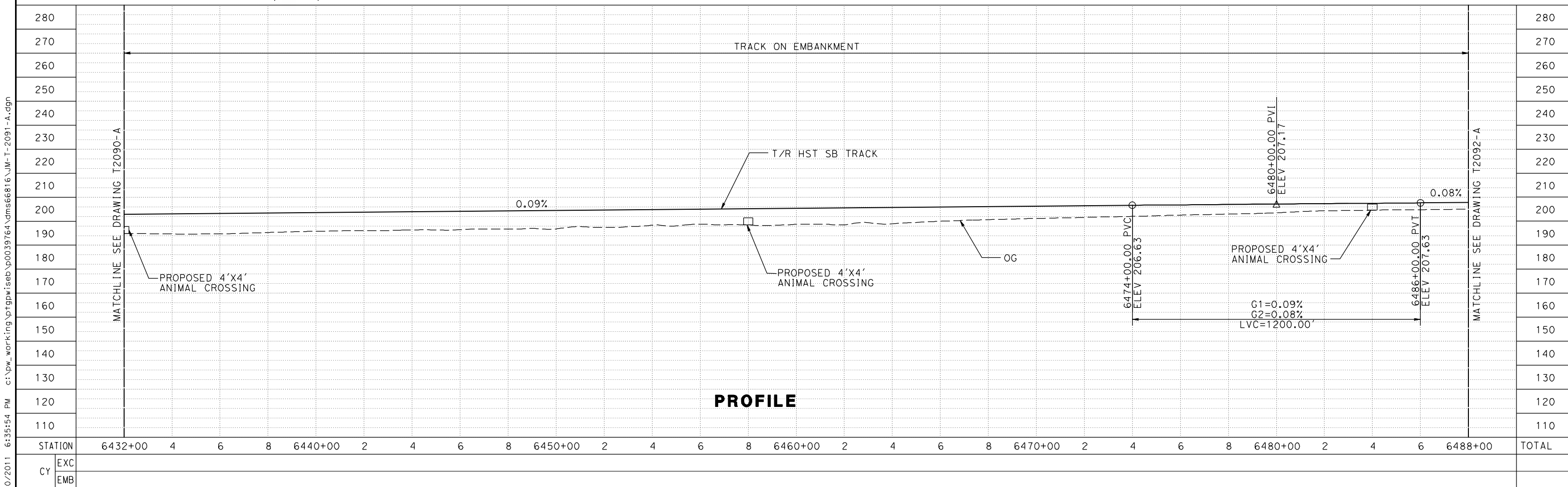
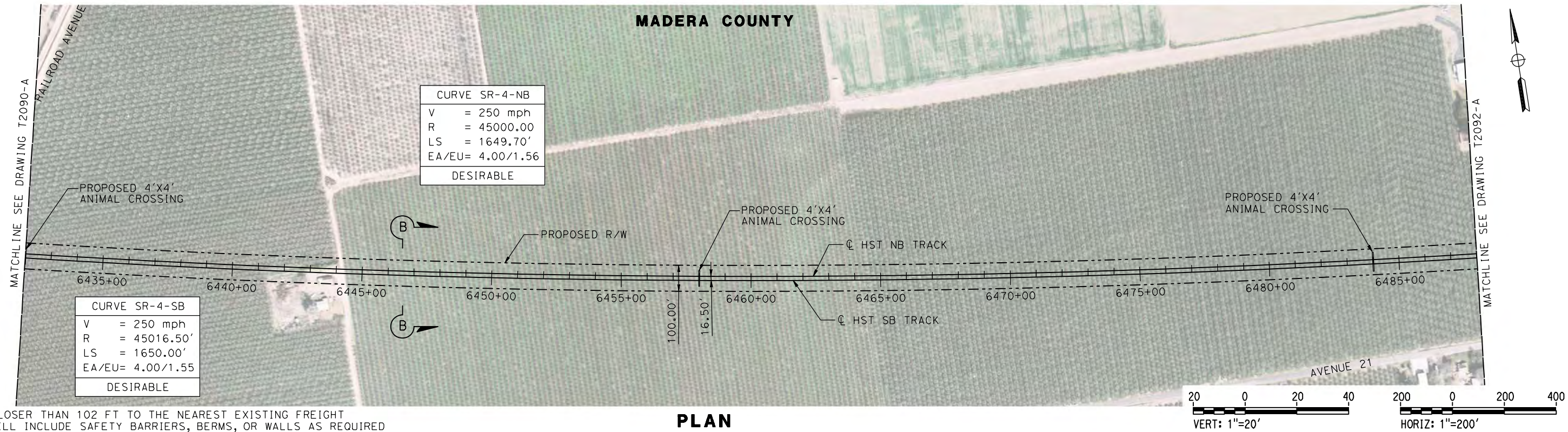
SHEET NO.



						DESIGNED BY P. JACOBY	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 24/SR152/AVENUE 21 TRACK PLAN AND PROFILE STA 6376+00 TO STA 6432+00	CONTRACT NO. HSR08-05
						DRAWN BY ALBERT S.					DRAWING NO. T2090-A
						CHECKED BY RESHMA C.					SCALE AS SHOWN
						IN CHARGE D. WEMMER					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 4/15/2011					



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p0039764



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY	NOT FOR CONSTRUCTION
P. JACOBY		
DRAWN BY		
ALBERT S.		
CHECKED BY		
RESHMA C.		
IN CHARGE		
D. WEMMER		
DATE		
4/15/2011		



CALIFORNIA HIGH-SPEED TRAIN PROJECT

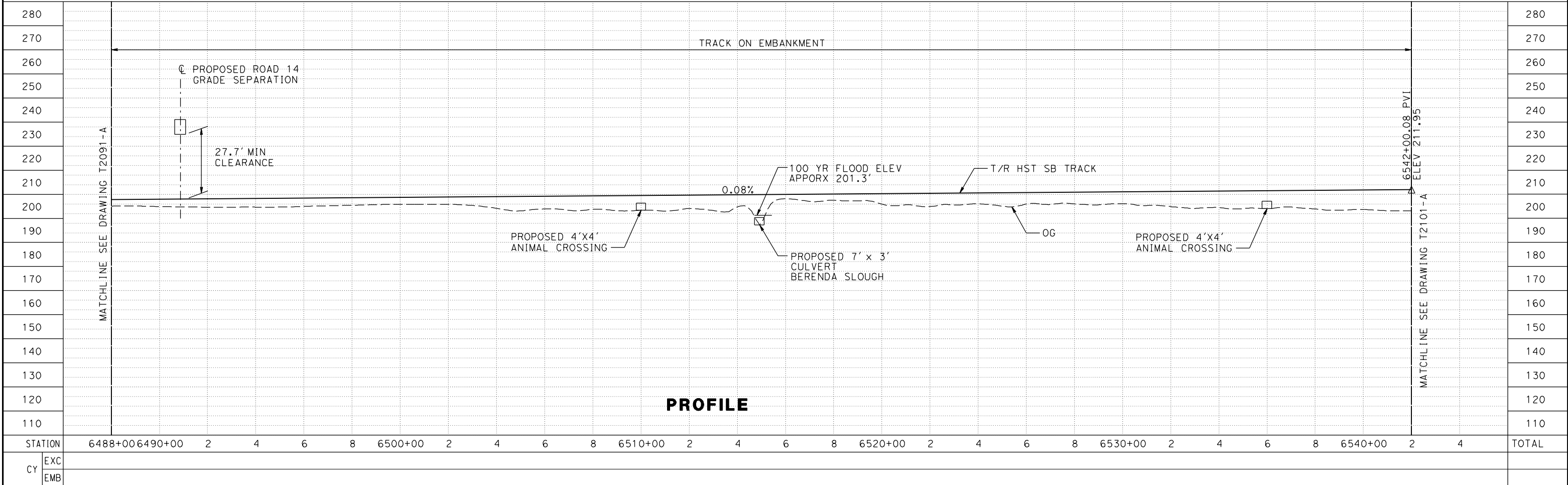
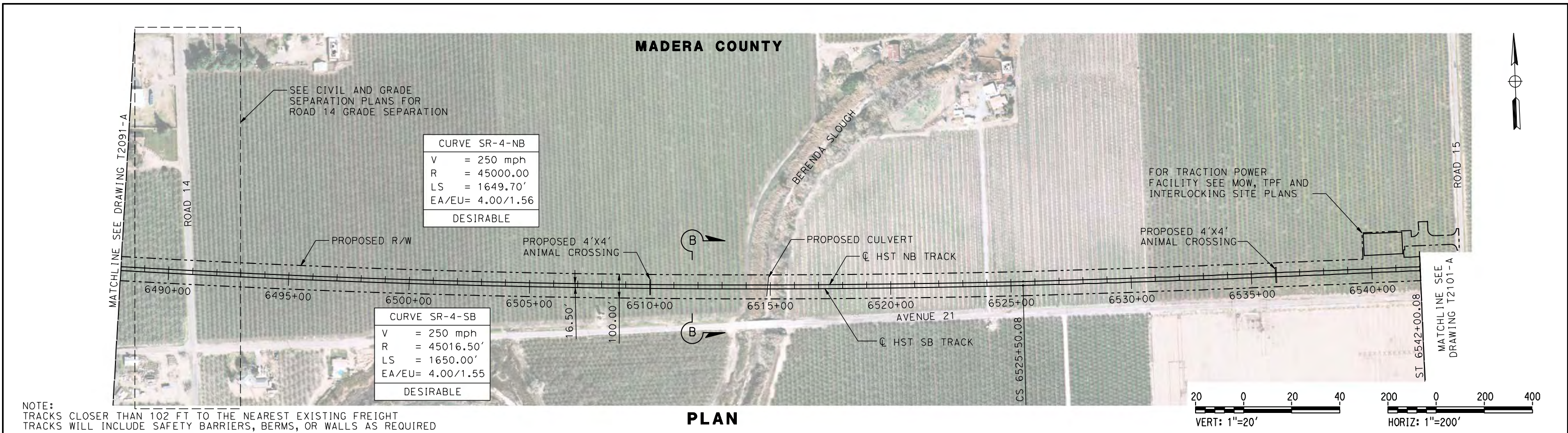
MERCED TO FRESNO



BNSF MAIN LINE
AVENUE 24/SR152/AVENUE 21
TRACK PLAN AND PROFILE
STA 6432+00 TO STA 6488+00

CONTRACT NO.	DRAWING NO.	SCALE	SHEET NO.
HSR08-05	T2091-A	AS SHOWN	

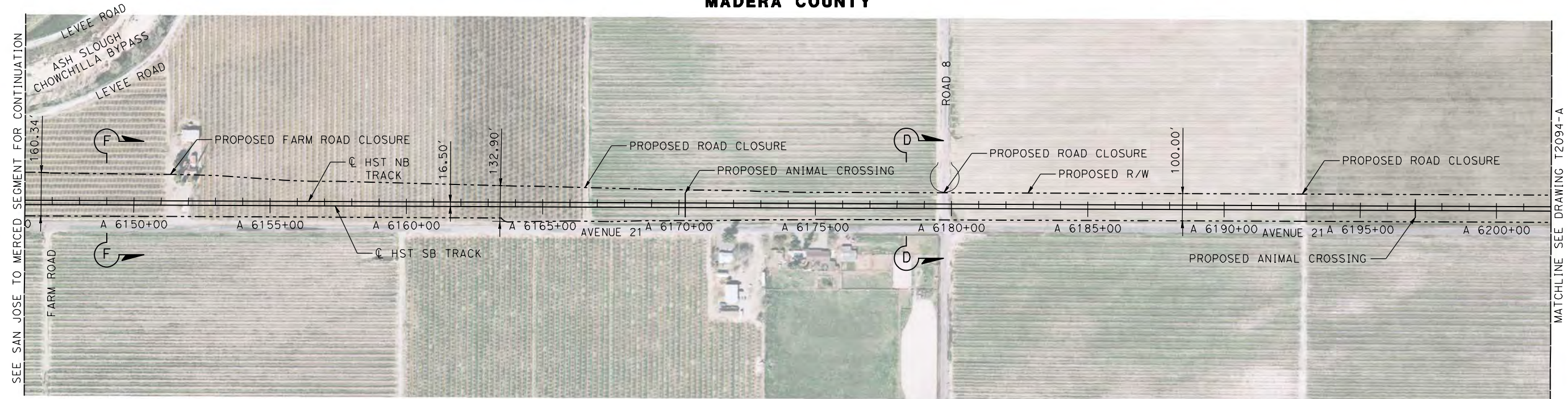
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p0039764



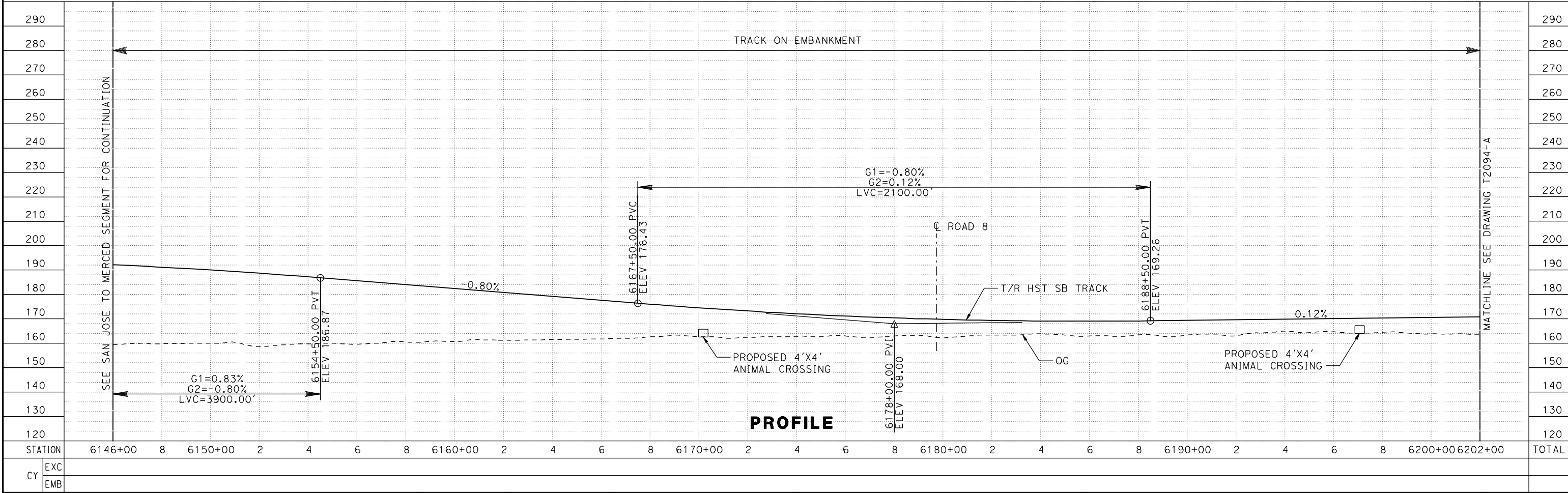
						DESIGNED BY P. JACOBY	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY	 PARSONS	 <i>CALIFORNIA</i> HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 24/SR152/AVENUE 21 TRACK PLAN AND PROFILE 6488+00 TO STA 6542+00		CONTRACT NO. HSR08-05
					DRAWN BY ALBERT S.	DRAWING NO. T2092-A						
					CHECKED BY RESHMA C.	SCALE AS SHOWN						
					IN CHARGE D. WEMMER	SHEET NO.						
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 4/15/2011	NOT FOR CONSTRUCTION					

MADERA COUNTY



NOTE:
TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT
TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

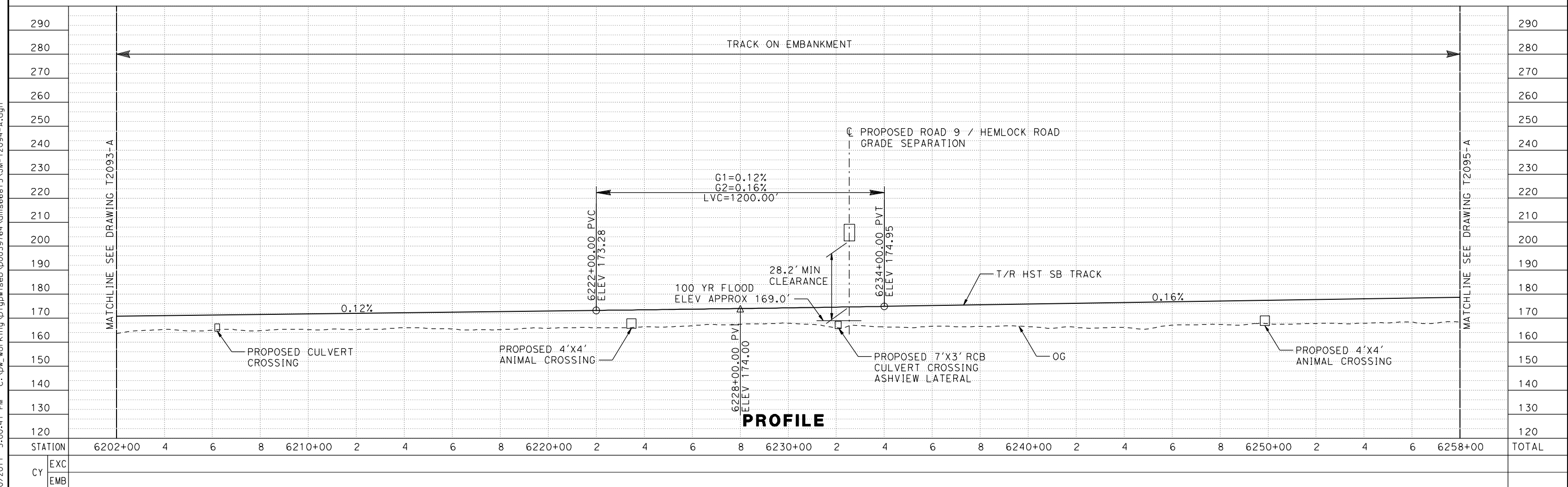
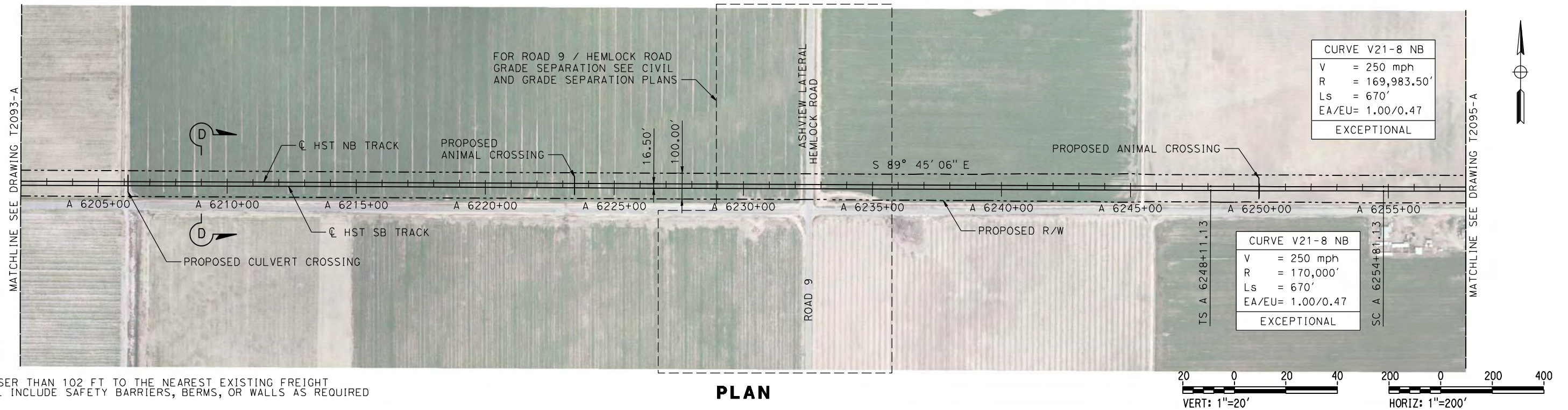
PLAN



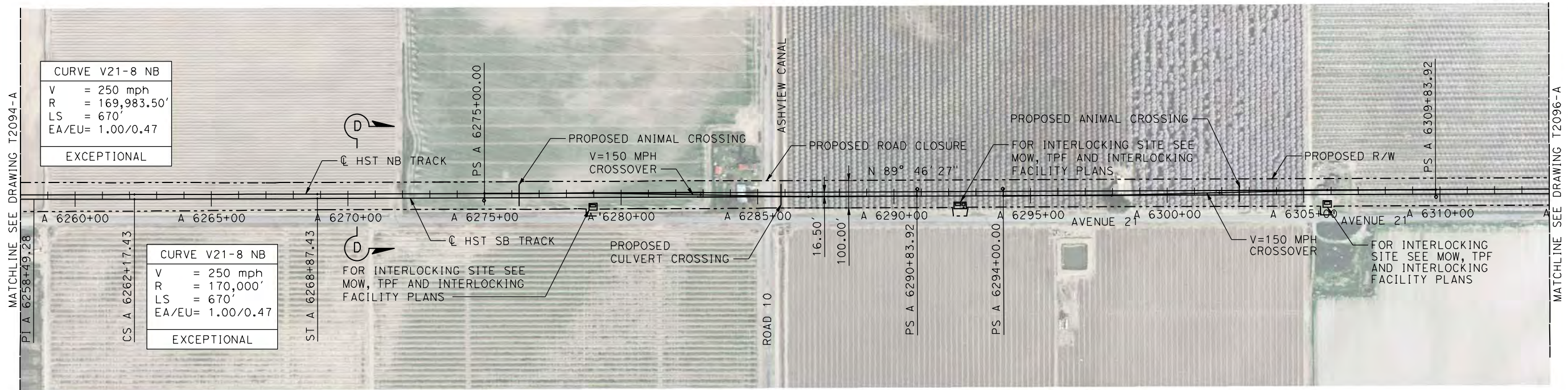
PROFILE

DESIGNED BY A. GURA	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 21 TRACK PLAN AND PROFILE STA A 6146+00 TO STA A 6202+00	CONTRACT NO. HSR08-05
DRAWN BY A. GURA					DRAWING NO. T2093-A
CHECKED BY S. GOOLLA					SCALE AS SHOWN
IN CHARGE D. WEMMER					SHEET NO.
DATE 4/15/2011					

REV	DATE	BY	CHK	APP	DESCRIPTION

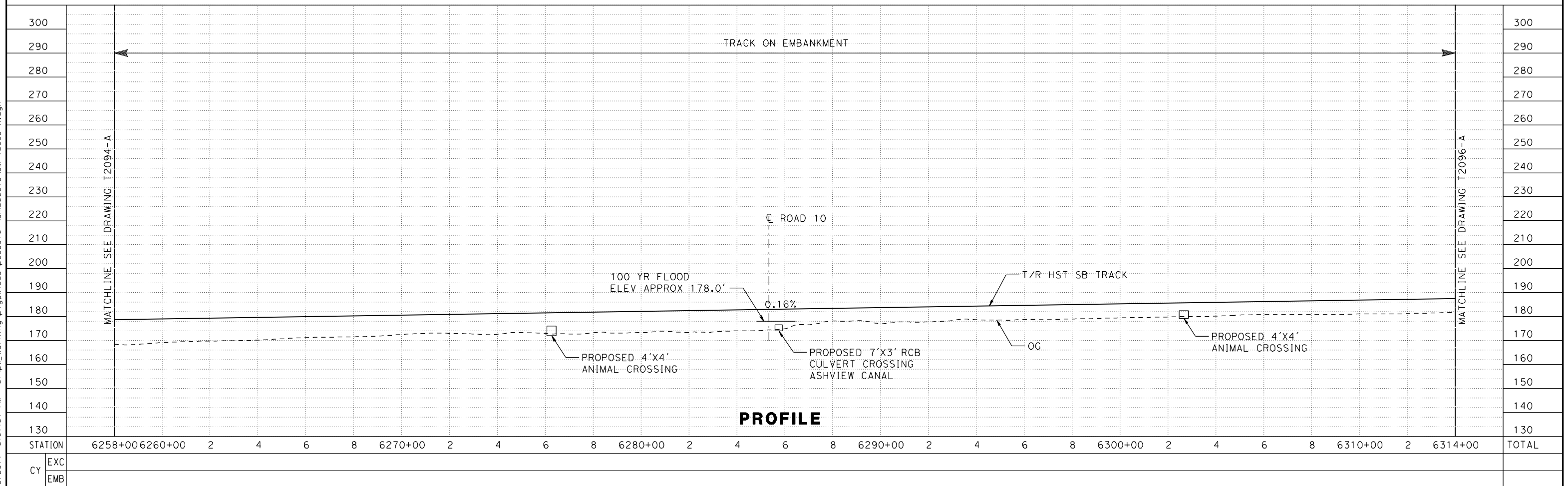
MADERA COUNTY



						DESIGNED BY A. GURA	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY	 PARSONS	 CALIFORNIA <i>HIGH-SPEED RAIL AUTHORITY</i>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 21 TRACK PLAN AND PROFILE STA A 6202+00 TO STA A 6258+00	CONTRACT NO. HSR08-05
						DRAWN BY A. GURA					DRAWING NO. T2094-A
						CHECKED BY S. GOOLLA					SCALE AS SHOWN
						IN CHARGE D. WEMMER					SHEET NO.
						DATE 4/15/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION						

MADERA COUNTY

NOTE:
TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT
TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

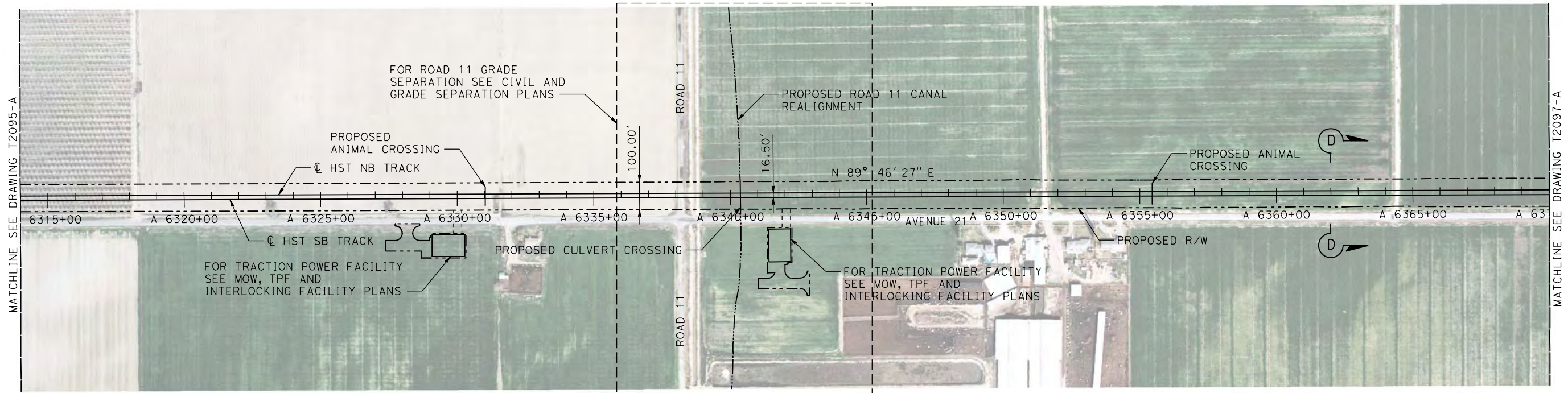
PLAN



						DESIGNED BY A. GURA	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION	 PARSONS	 <i>CALIFORNIA</i> HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 21 TRACK PLAN AND PROFILE STA A 6258+00 TO STA A 6314+00	CONTRACT NO. HSR08-05
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					CHECKED BY S. GOOLLA	SCALE AS SHOWN					
					IN CHARGE D. WEMMER	SHEET NO.					
					DATE 4/15/2011						
REV	DATE	BY	CHK	APP	DESCRIPTION						

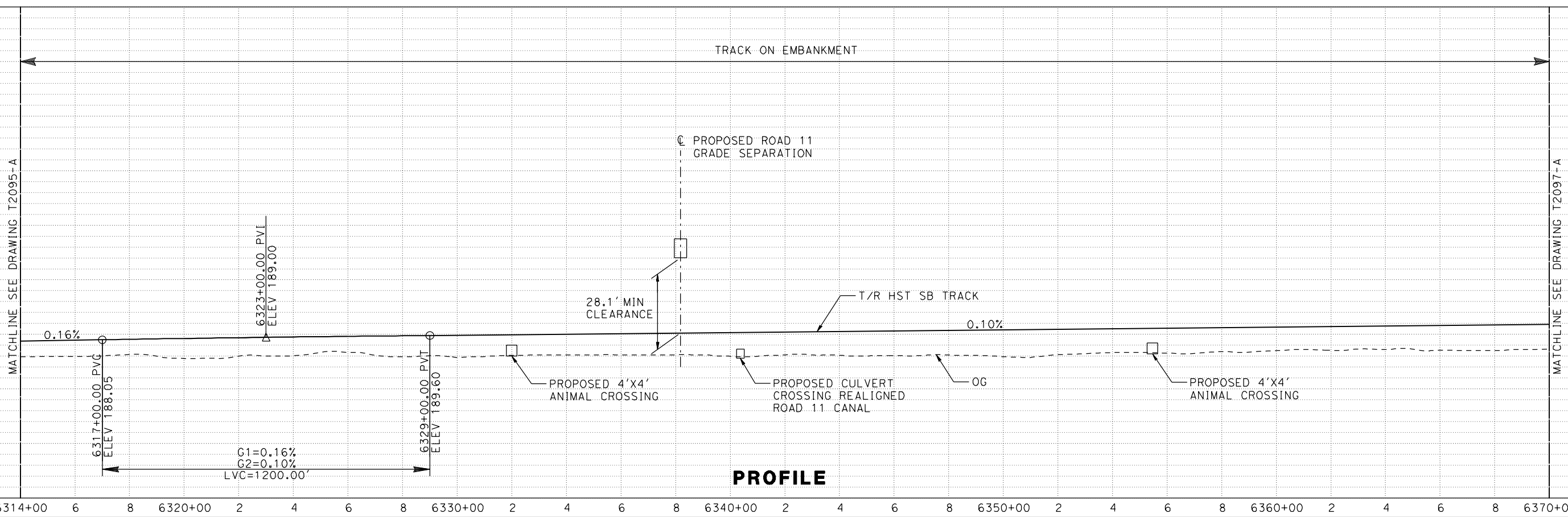
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MADERA COUNTY



PLAN

NOTE:
TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT
TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED



PROFILE

STATION	6314+00	6	8	6320+00	2	4	6	8	6330+00	2	4	6	8	6340+00	2	4	6	8	6350+00	2	4	6	8	6360+00	2	4	6	8	6370+00	TOTAL
EXC																														
EMB																														

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. GURA
DRAWN BY
A. GURA
CHECKED BY
S. GOOLLA
IN CHARGE
D. WEMMER
DATE
4/15/2011

**15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY**

**NOT FOR
CONSTRUCTION**




**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 21
TRACK PLAN AND PROFILE
STA A 6314+00 TO STA A 6370+00

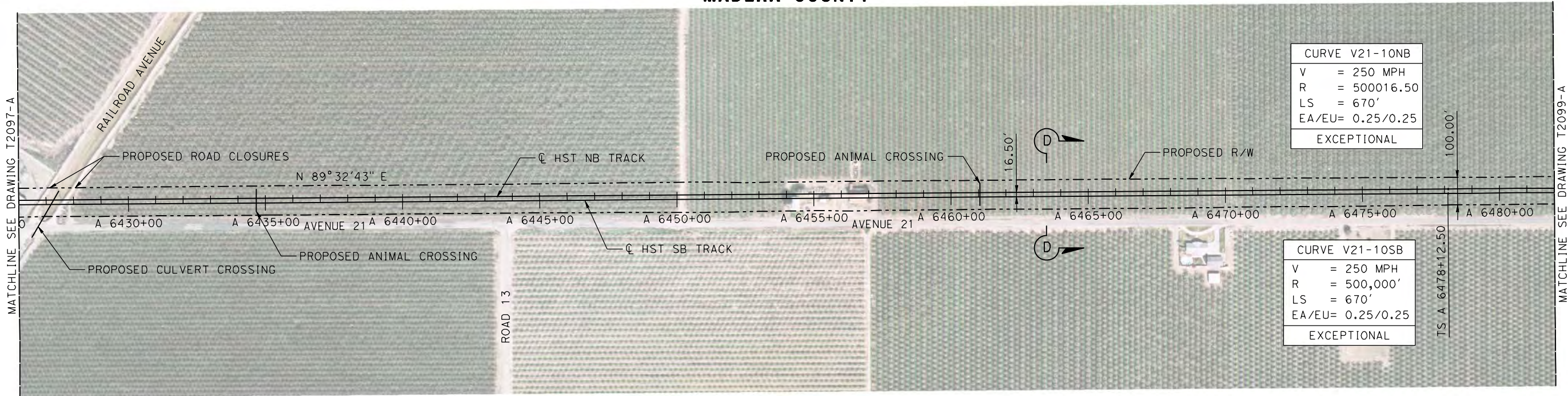
CONTRACT NO.
HSR08-05
DRAWING NO.
T2096-A
SCALE
AS SHOWN
SHEET NO.

CURVE V21-9 NB	
V	= 250 MPH
R	= 399,983.50'
LS	= 670'
EA/EU	= 0.50/0.13
EXCEPTIONAL	



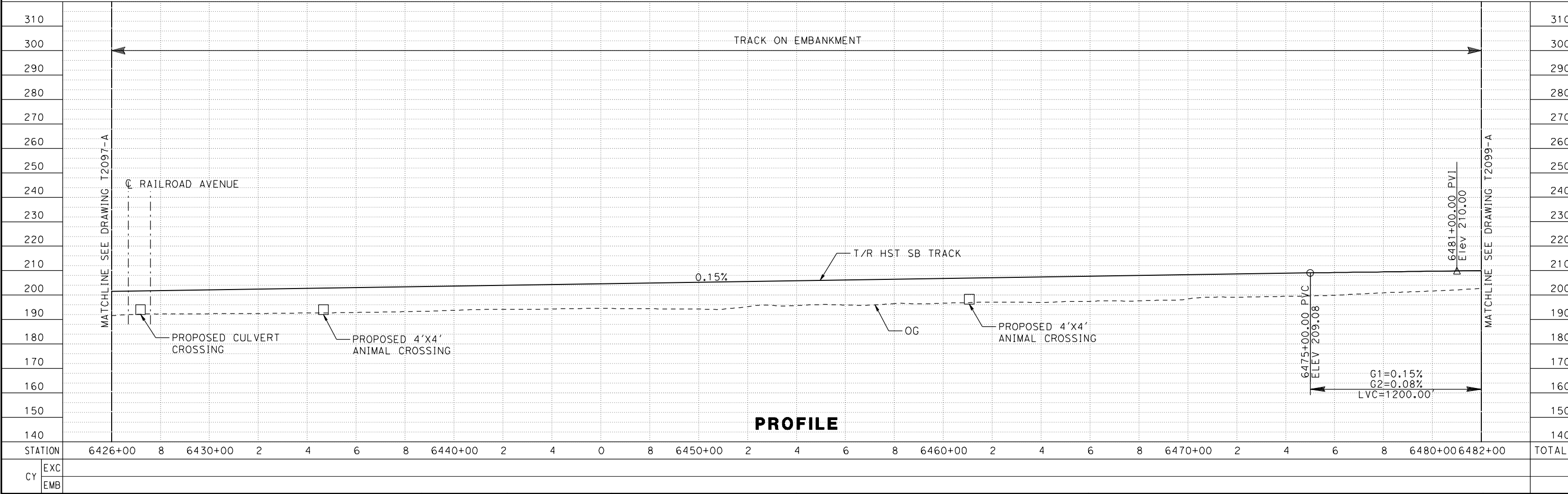
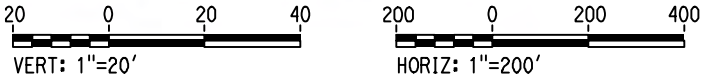
						DESIGNED BY A. GURA	15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY	 PARSONS	 CALIFORNIA <i>HIGH-SPEED RAIL AUTHORITY</i>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE AVENUE 21 TRACK PLAN AND PROFILE STA A 6370+00 TO STA A 6426+00	CONTRACT NO. HSR08-05
						DRAWN BY A. GURA					DRAWING NO. T2097-A
						CHECKED BY S. GOOLLA					SCALE AS SHOWN
						IN CHARGE D. WEMMER					SHEET NO.
						DATE 4/15/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION						

MADERA COUNTY



NOTE:
TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT
TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED

PLAN



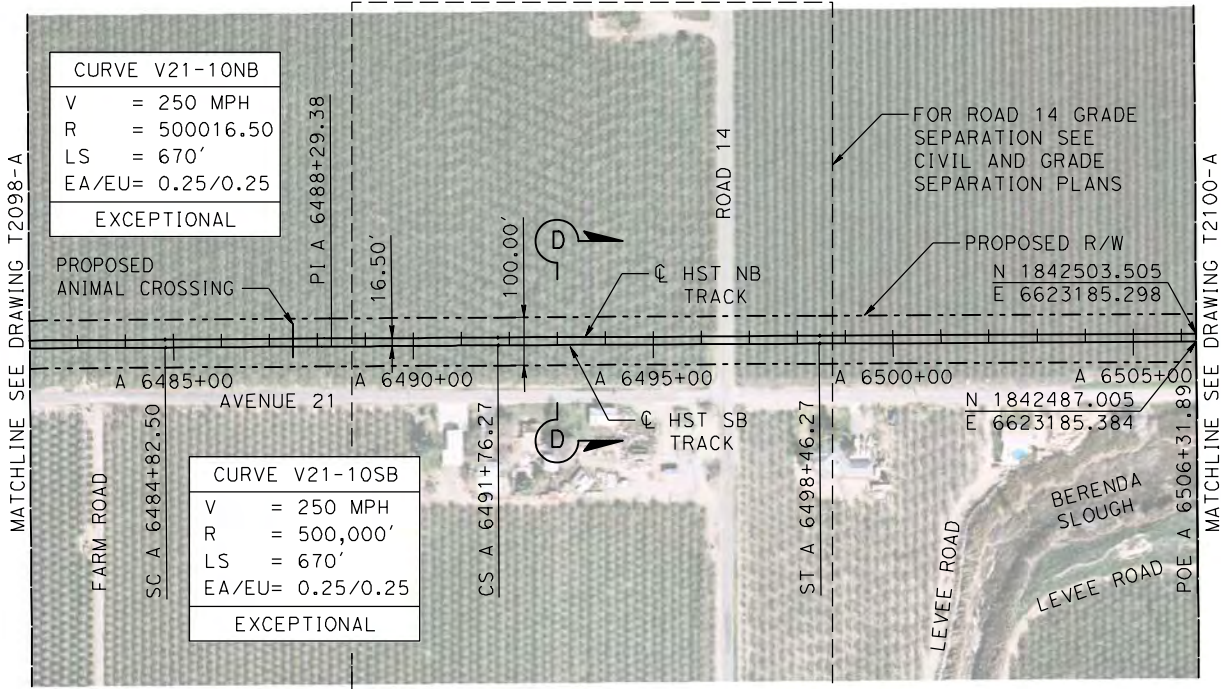
PROFILE

DESIGNED BY A. GURA						15% DRAFT SUBMITTAL FOR INTERNAL USE ONLY						NOT FOR CONSTRUCTION						CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO						CONTRACT NO. HSR08-05					
DRAWN BY A. GURA						CHECKED BY S. GOOLLA						IN CHARGE D. WEMMER						BNSF MAIN LINE AVENUE 21						DRAWING NO. T2098-A					
DATE 4/15/2011																		TRACK PLAN AND PROFILE STA A 6426+00 TO STA A 6482+00						SCALE AS SHOWN					
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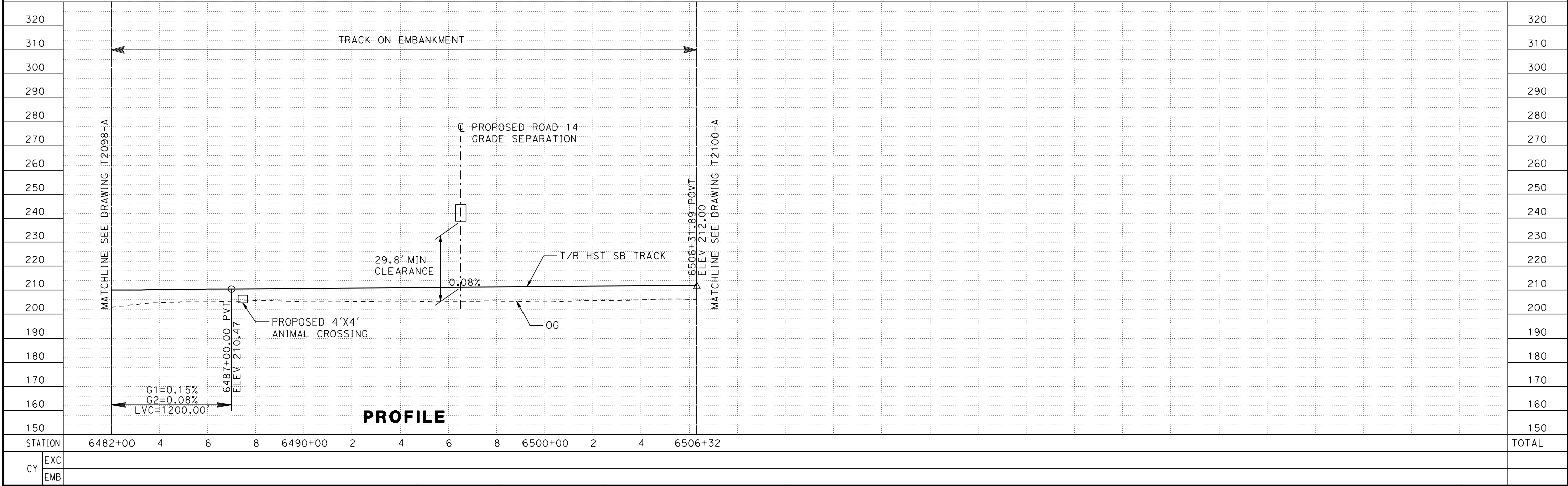
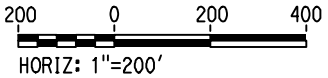
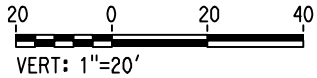
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p0039764

MADERA COUNTY



PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. GURA
DRAWN BY
A. GURA
CHECKED BY
S. GOOLLA
IN CHARGE
D. WEMMER
DATE
4/15/2011

15% DRAFT
SUBMITTAL
FOR INTERNAL
USE ONLY

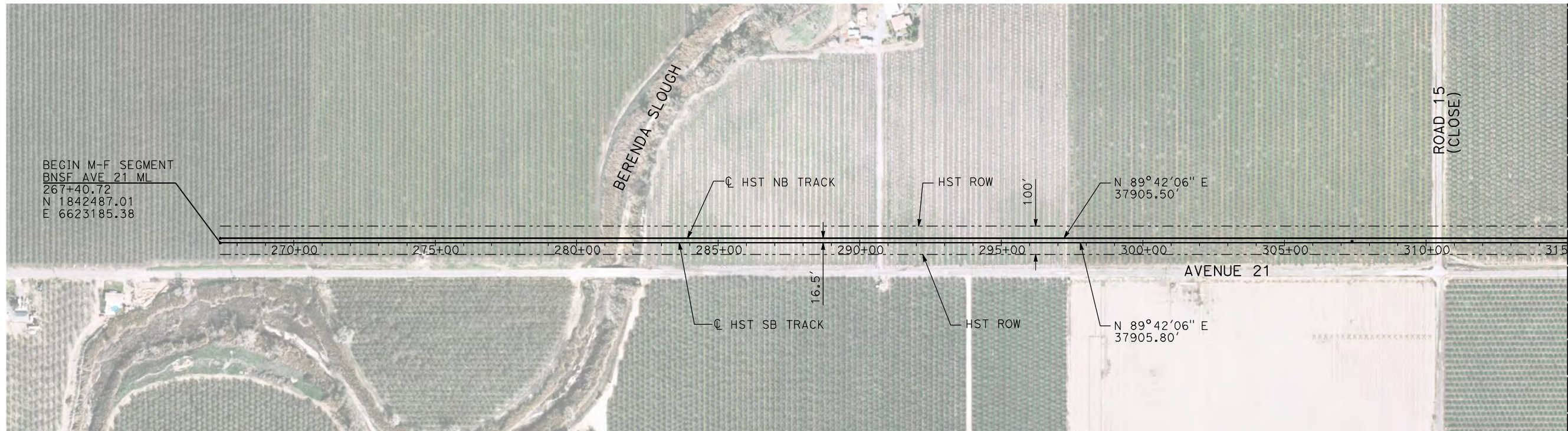
NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

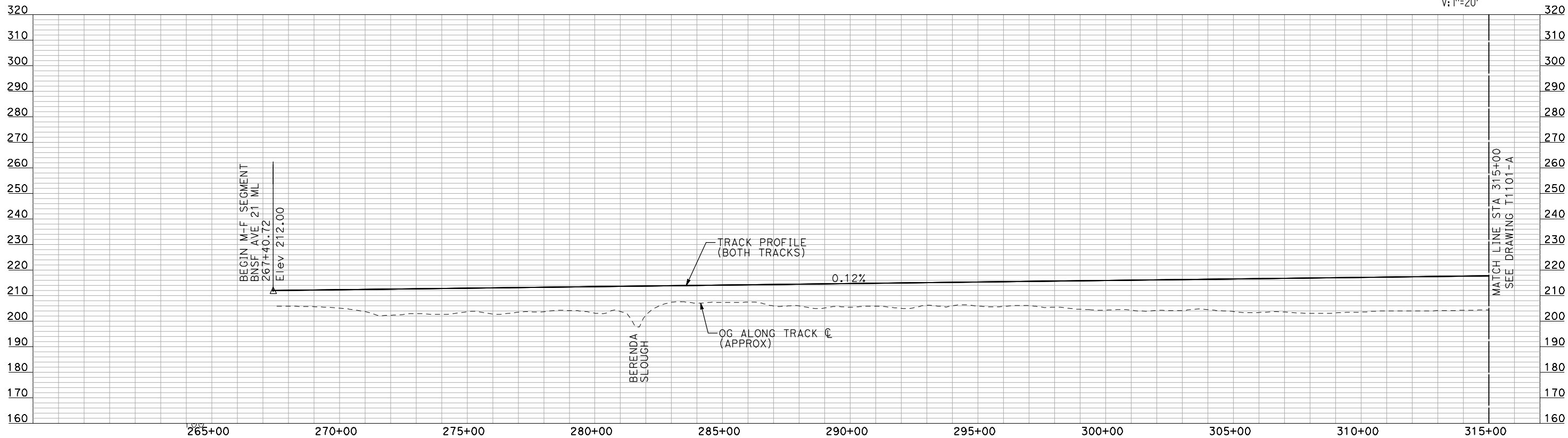
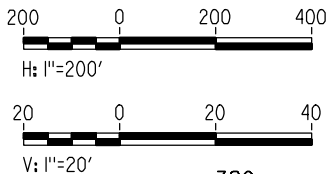
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
AVENUE 21
TRACK PLAN AND PROFILE
STA A 6482+00 TO STA A 6506+32

CONTRACT NO. HSR08-05
DRAWING NO. T2099-A
SCALE AS SHOWN
SHEET NO.



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



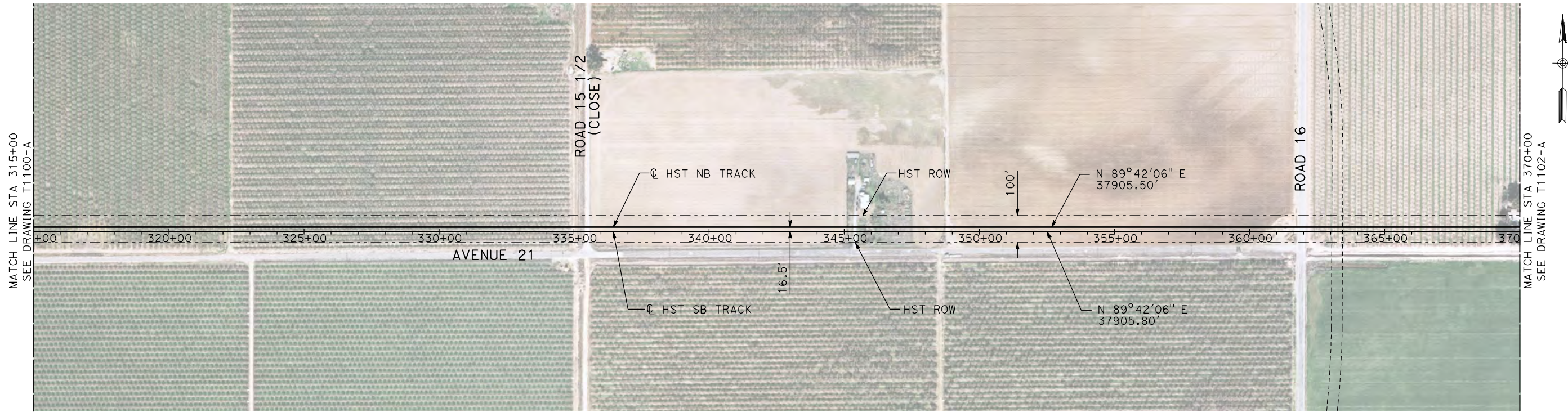
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 267+40.72 TO STA 315+00

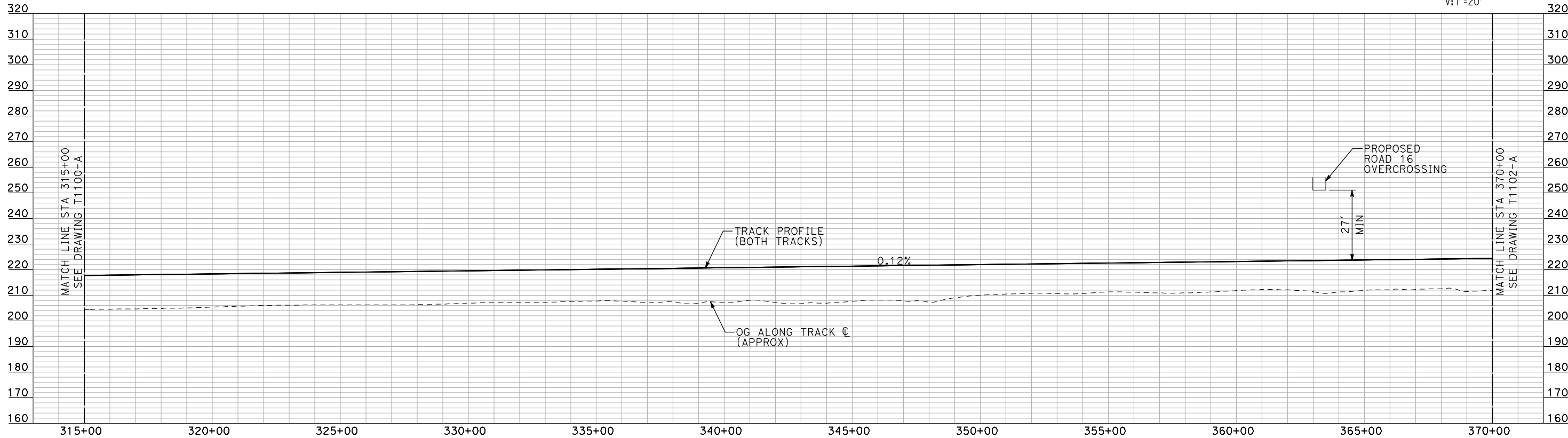
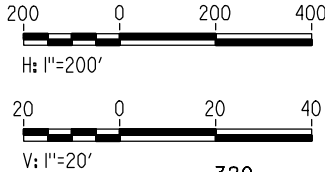
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

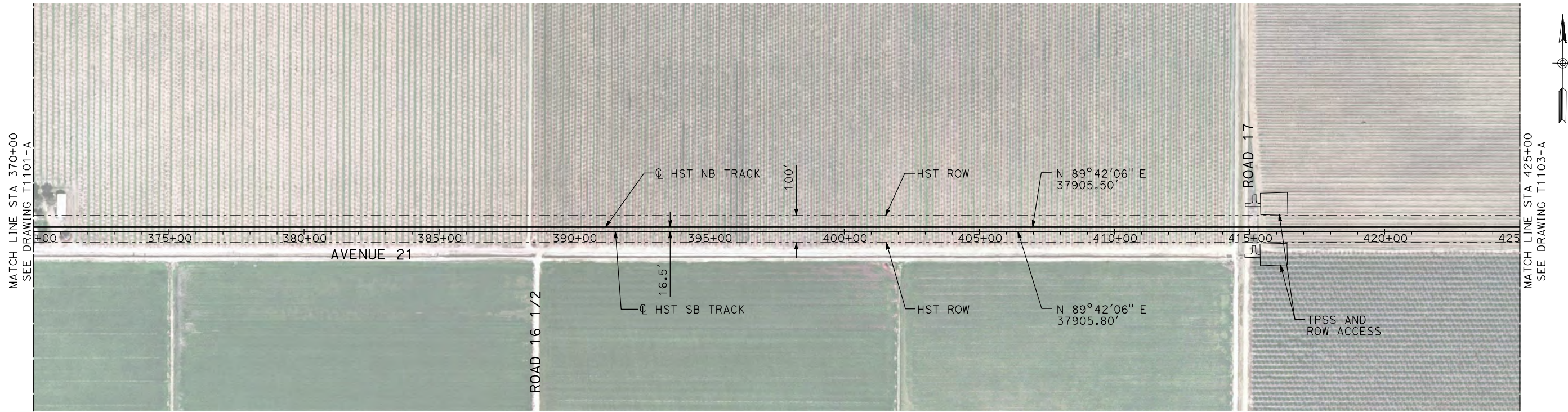


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 315+00 TO STA 370+00

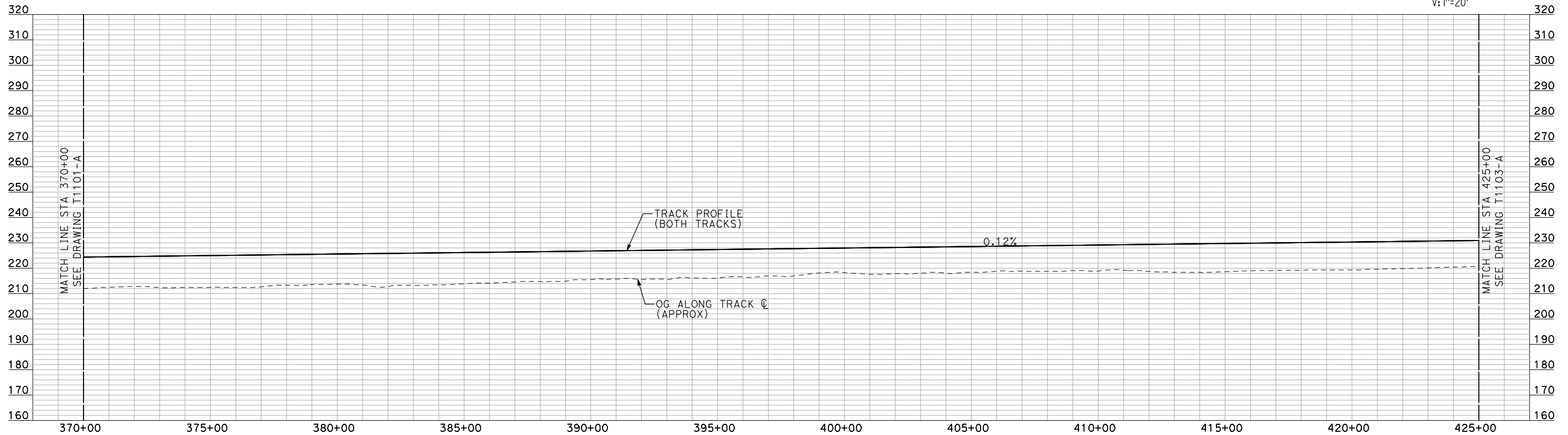
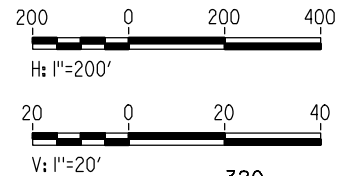
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DRAWING NO. T1101-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



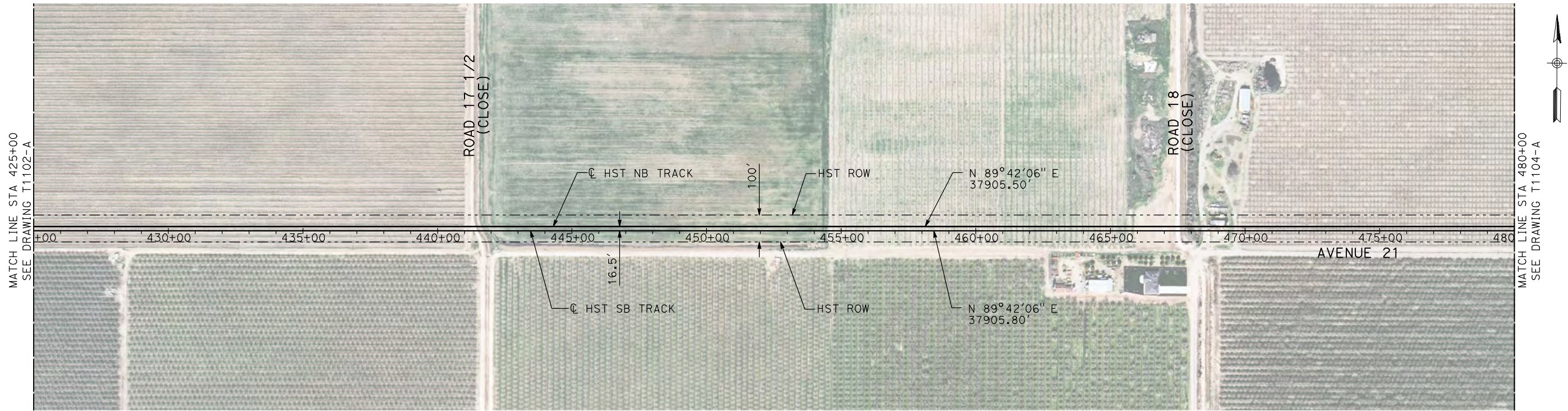
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 370+00 TO STA 425+00

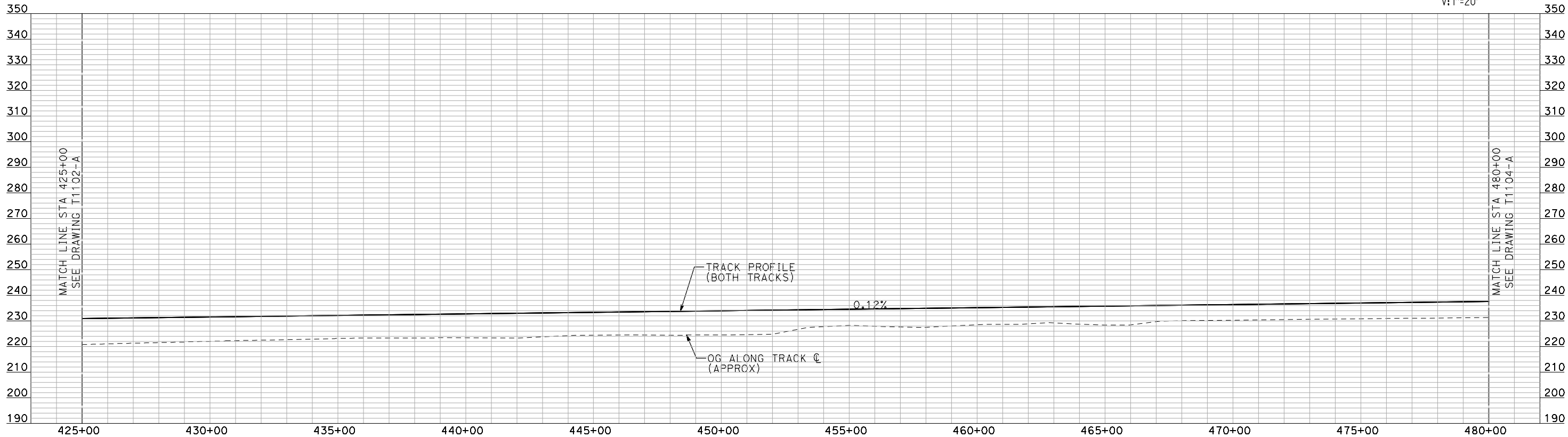
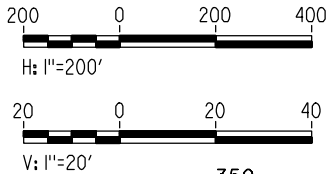
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SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



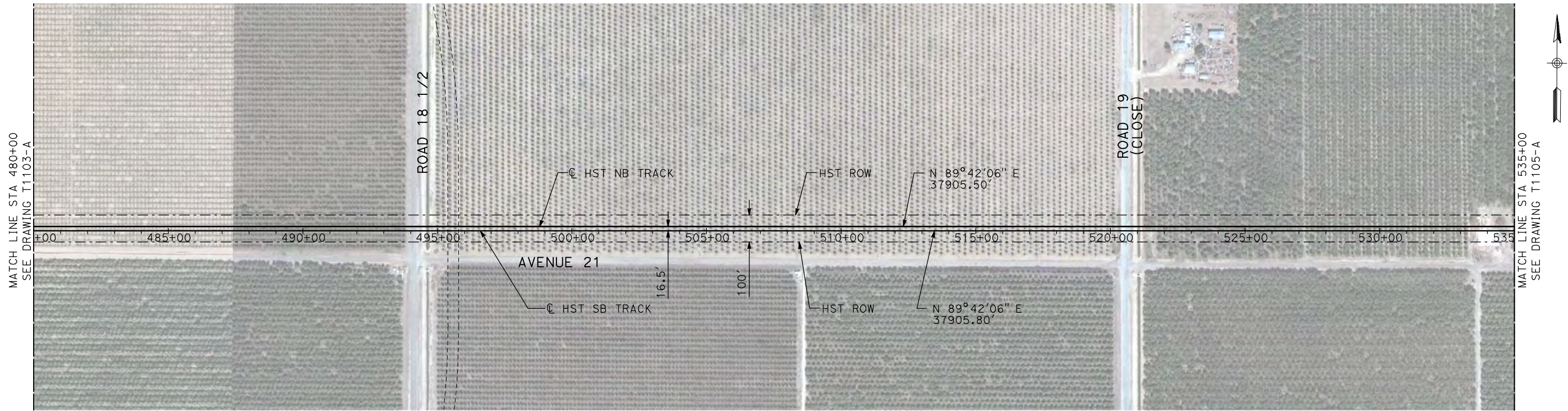
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 425+00 TO STA 480+00

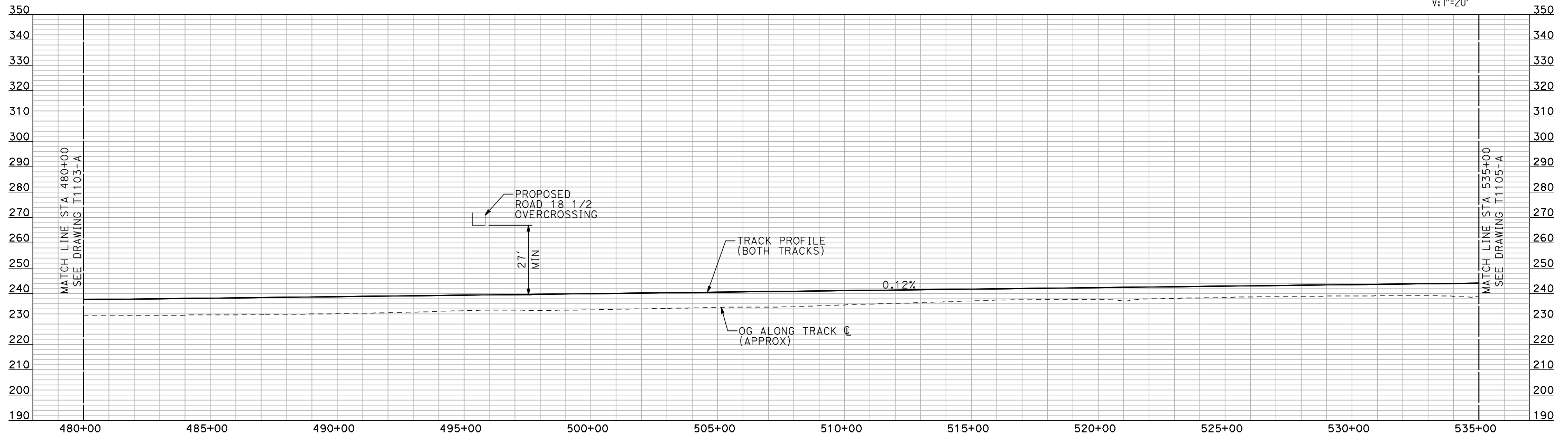
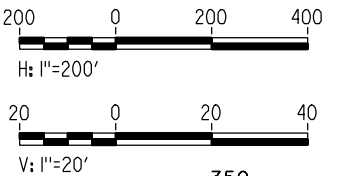
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

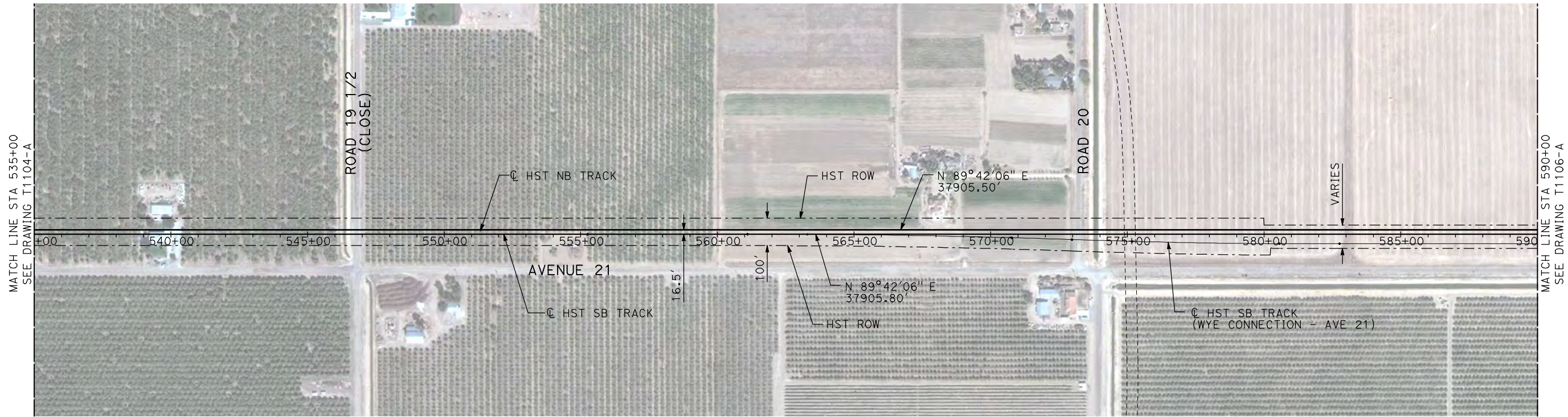


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 480+00 TO STA 535+00

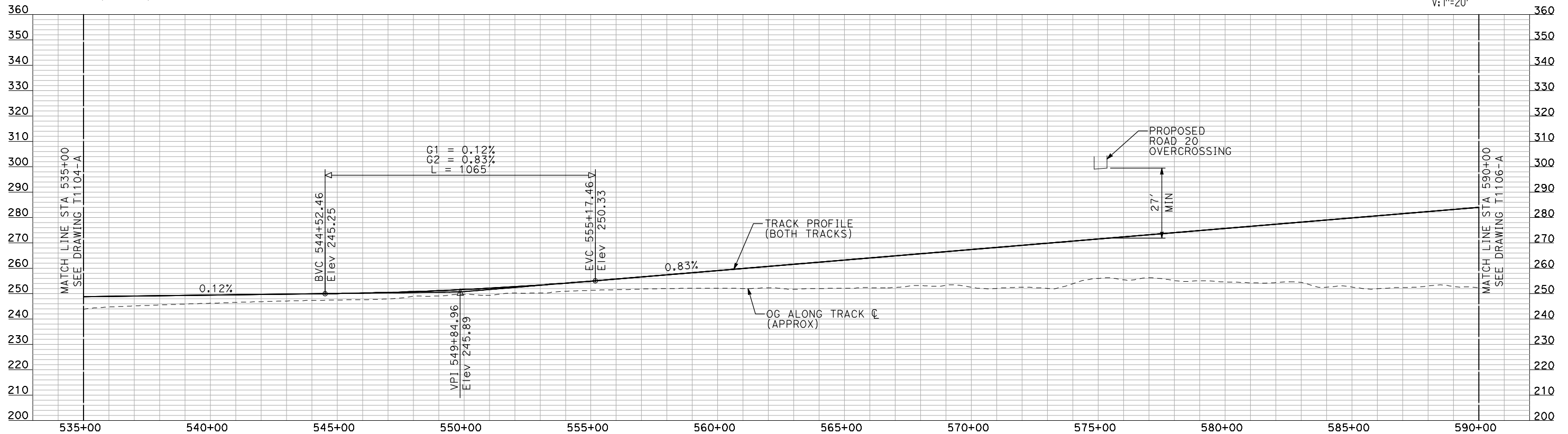
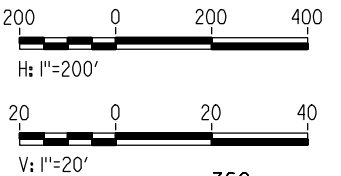
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SCALE AS SHOWN
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

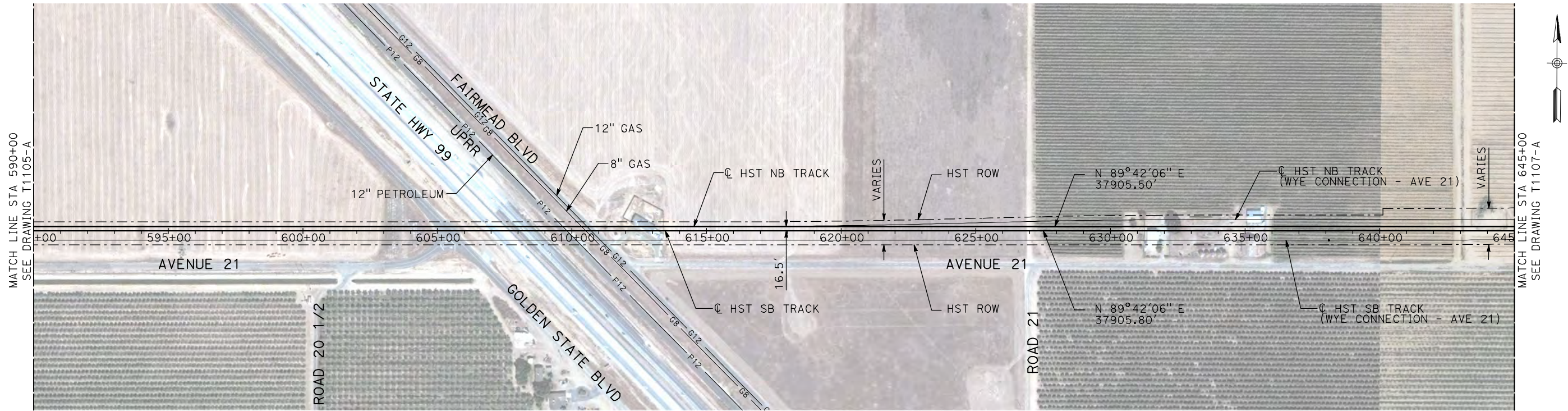


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 535+00 TO STA 590+00

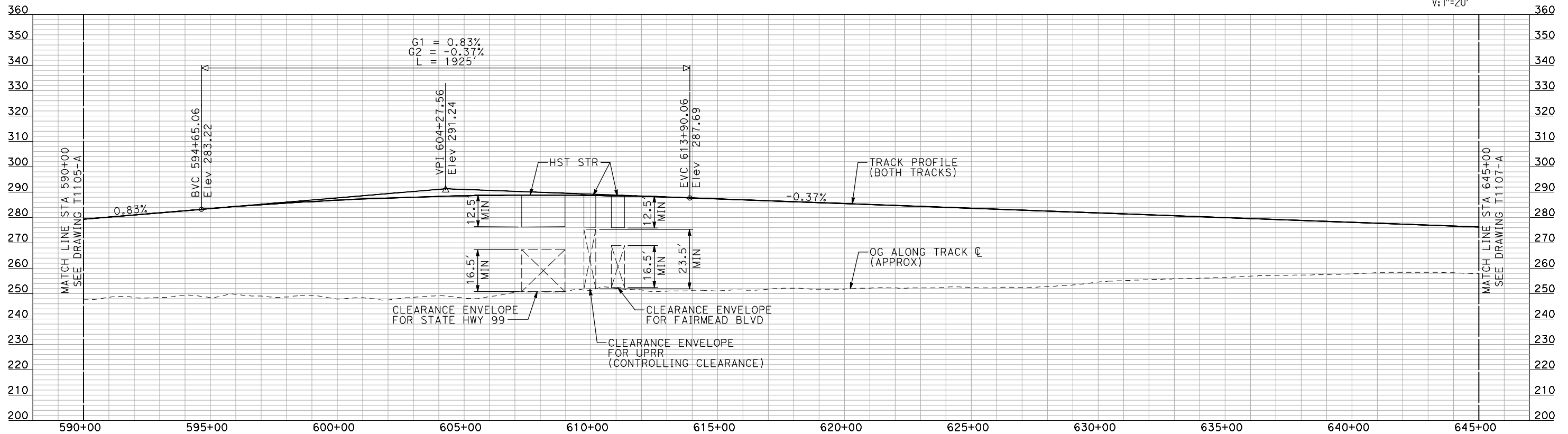
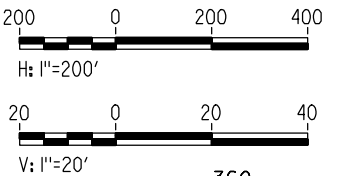
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

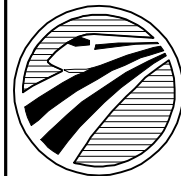
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



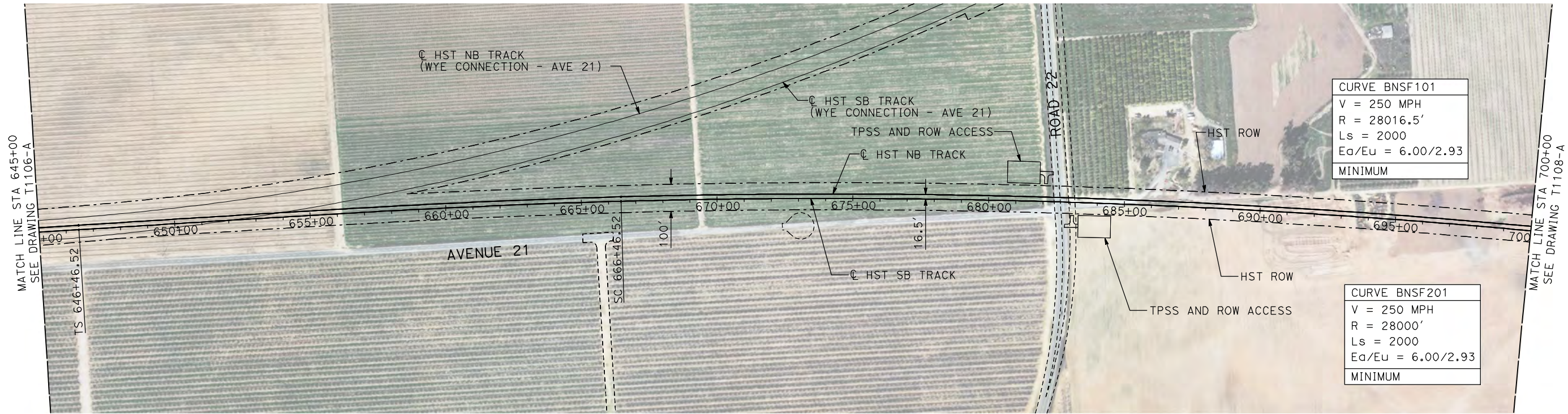
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

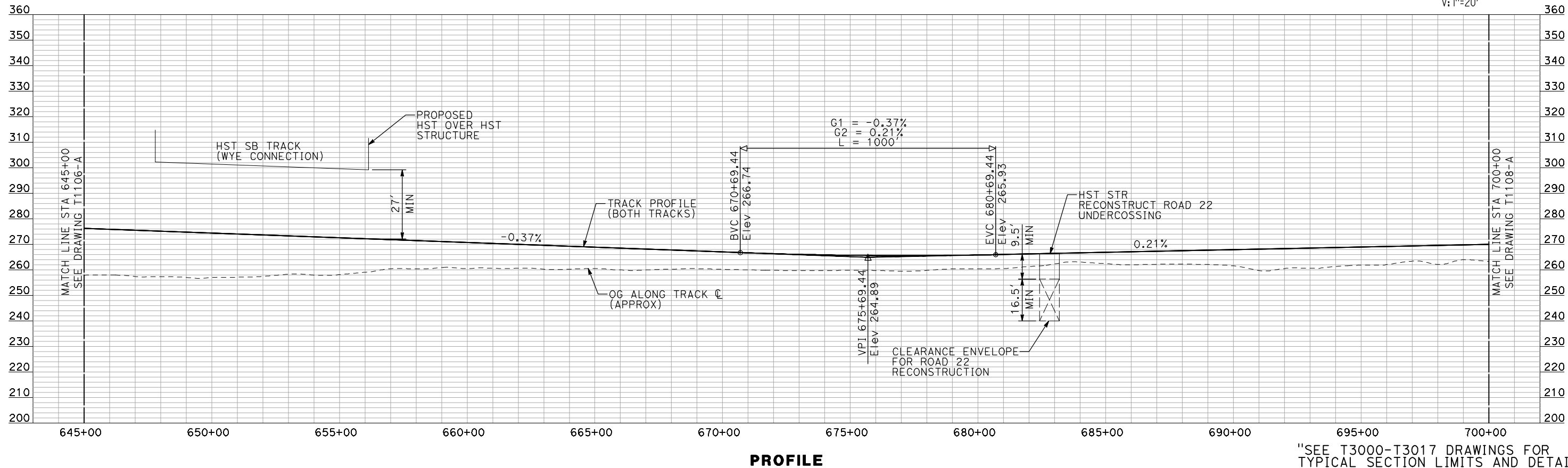
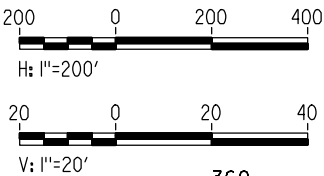
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 590+00 TO STA 645+00

CONTRACT NO. HSR06-007
DRAWING NO. T1106-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

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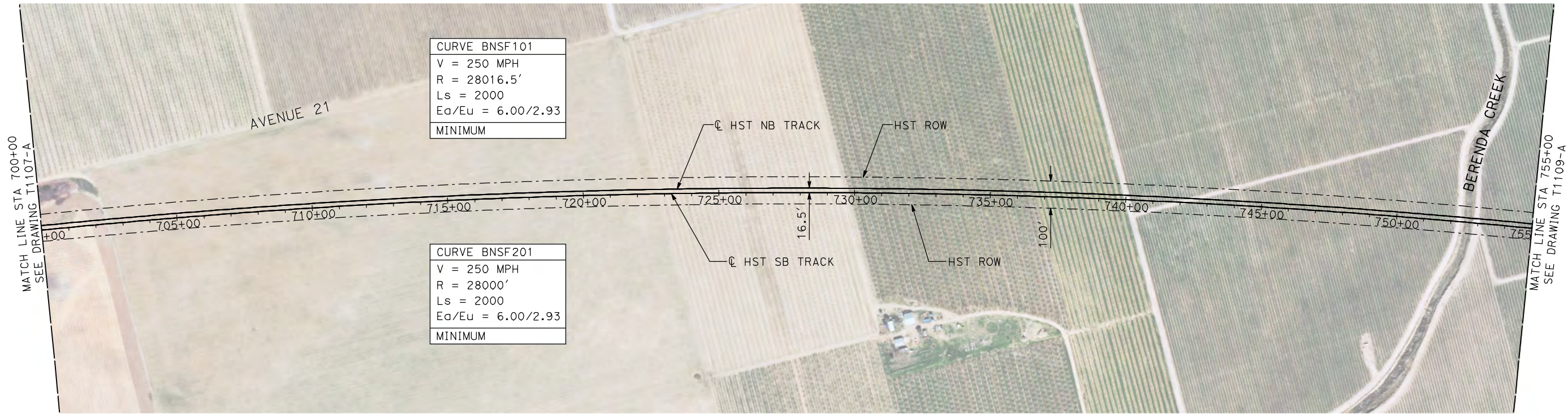


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

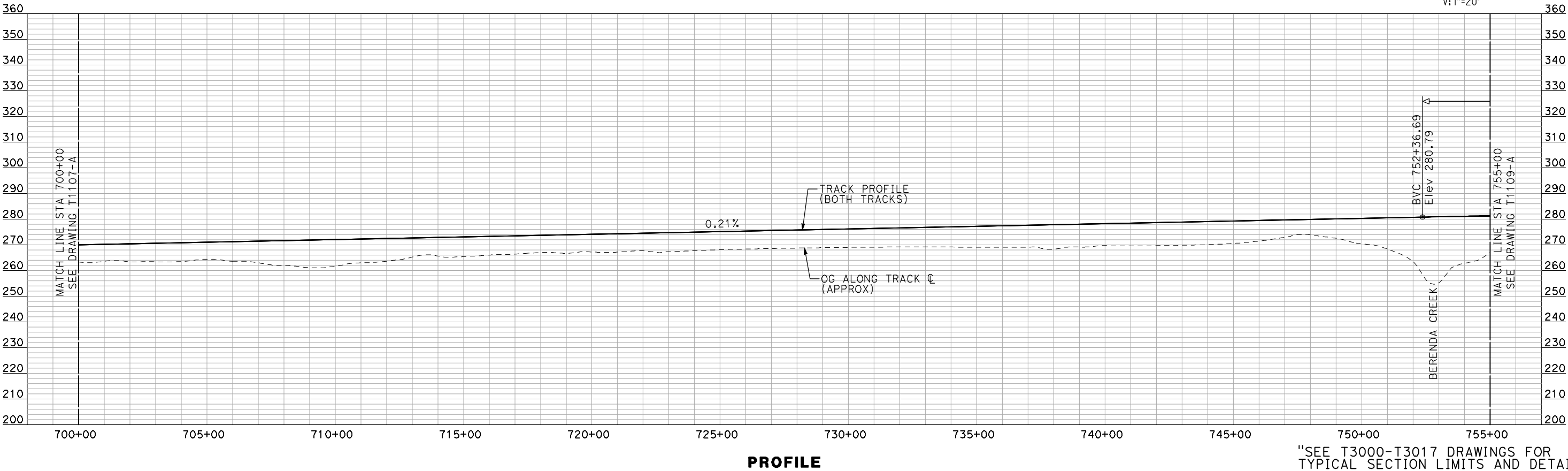
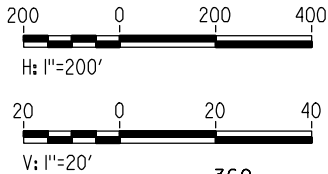
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 645+00 TO STA 700+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1107-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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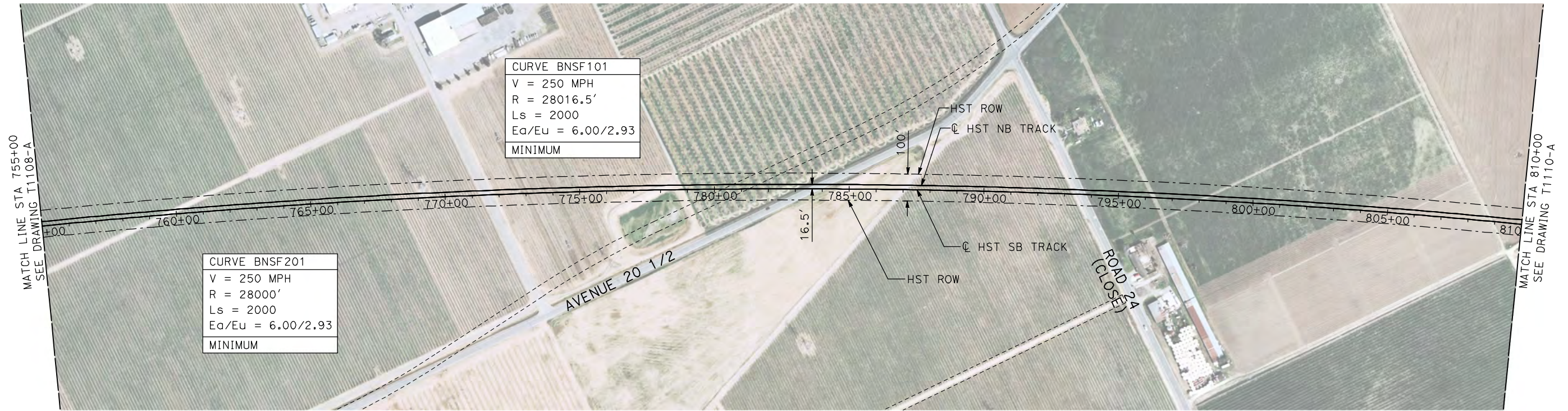


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 700+00 TO STA 755+00

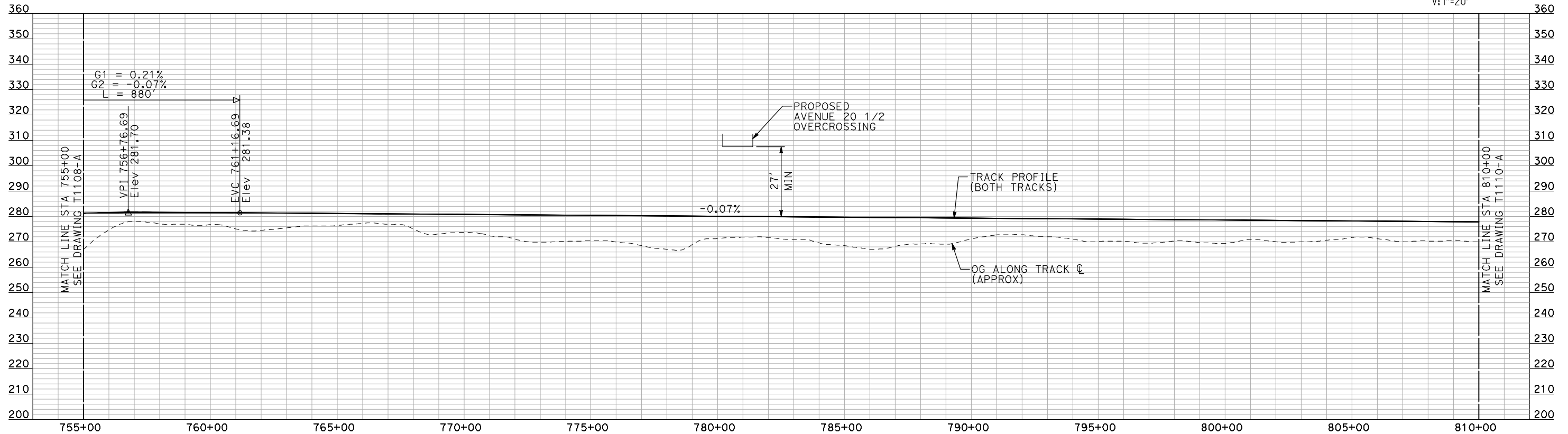
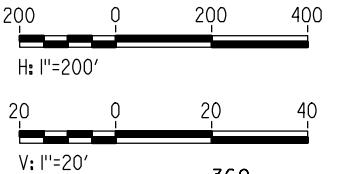
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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
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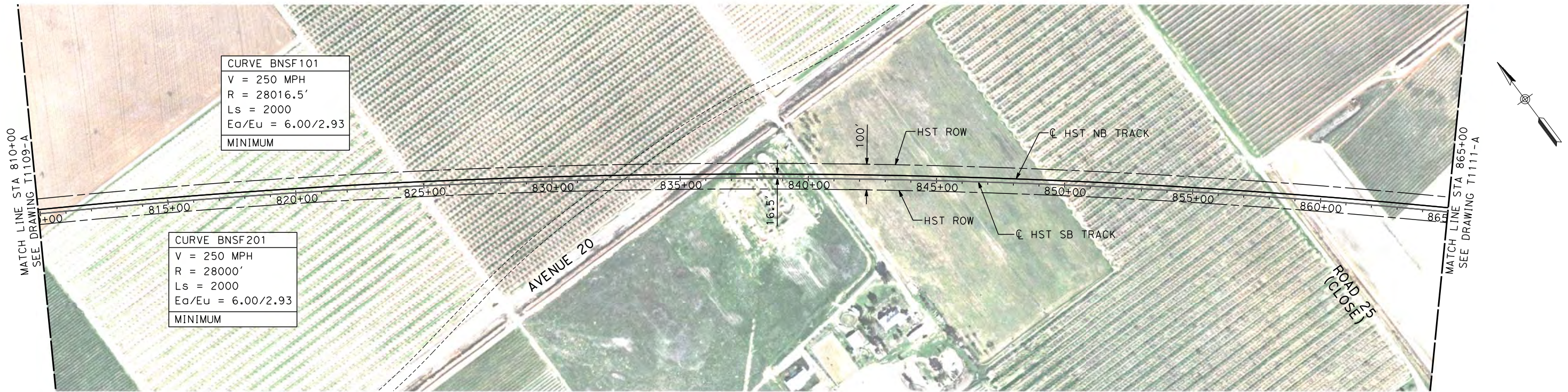


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 755+00 TO STA 810+00

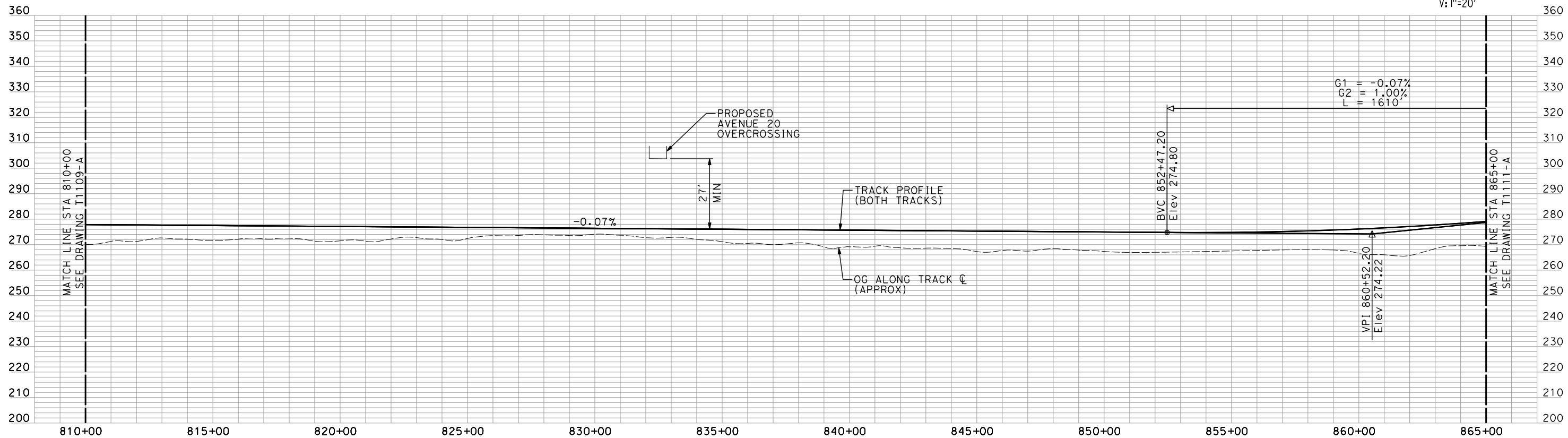
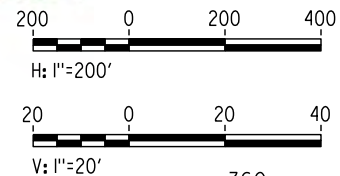
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DRAWING NO. T1109-A
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SHEET NO. ### OF ###

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

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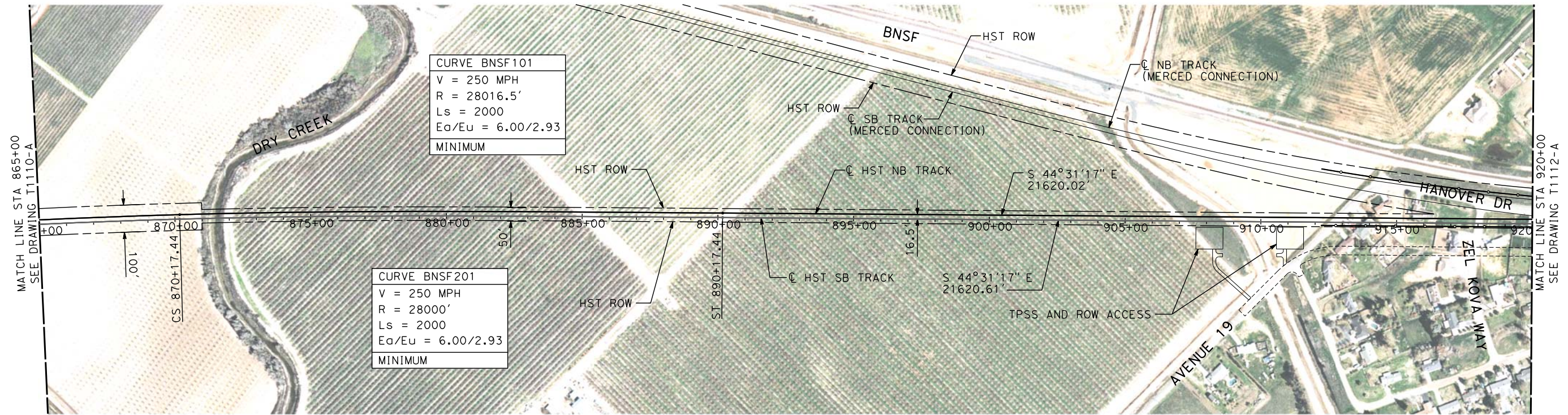


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 21
PLAN AND PROFILE
STA 810+00 TO STA 865+00

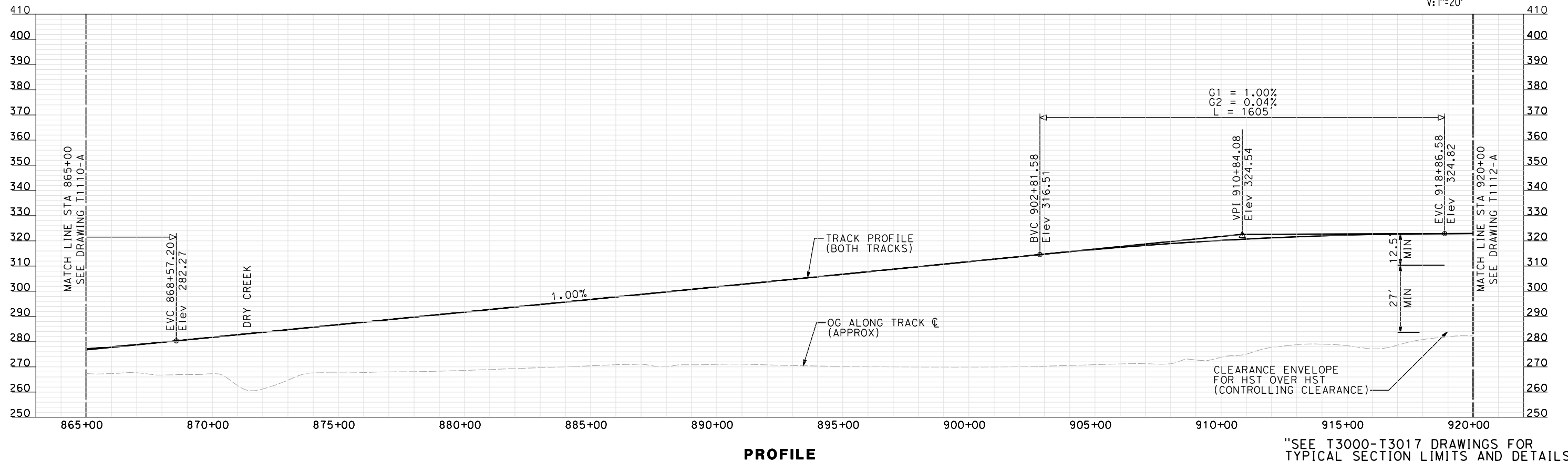
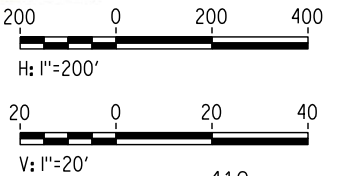
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 3. FOR CONTROLLING CLEARANCE ENVELOPE SEE T-1112-A.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

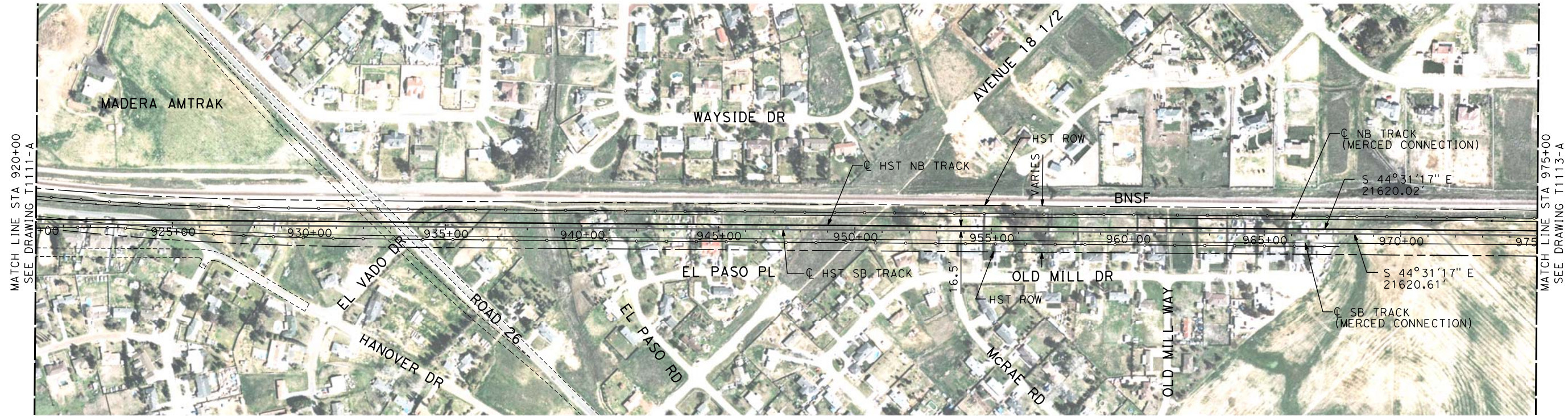
BNSF MAIN LINE

PLAN AND PROFILE
STA 865+00 TO STA 920+00

CONTRACT NO. HSR06-007
DRAWING NO. T1111-A
SCALE AS SHOWN
SHEET NO. ### OF ###

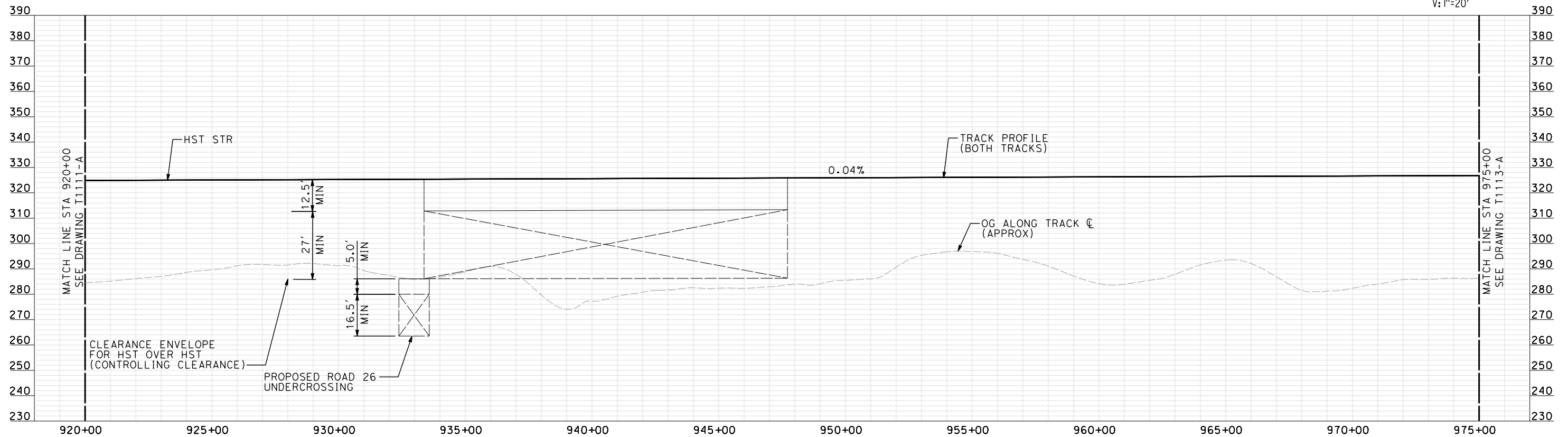
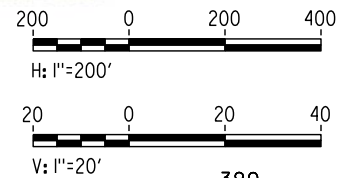
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 3. FOR CONTROLLING CLEARANCE ENVELOPE SEE T-1112-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

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Sacramento, CA 95811

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

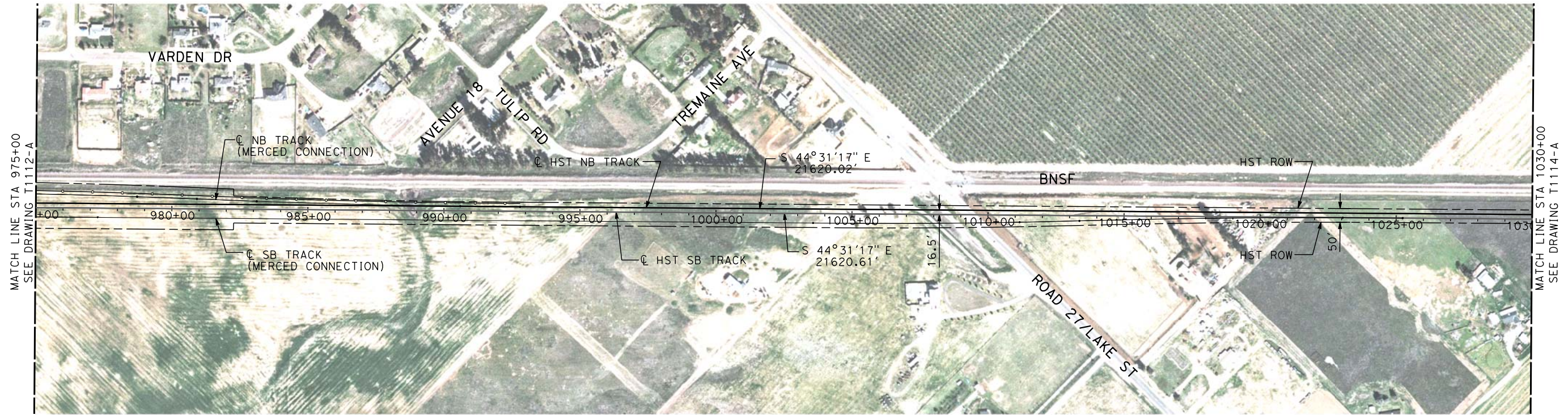
BNSF MAIN LINE

PLAN AND PROFILE
STA 920+00 TO STA 975+00

CONTRACT NO. HSR06-007
DRAWING NO. T1112-A
SCALE AS SHOWN
SHEET NO. ### OF ###

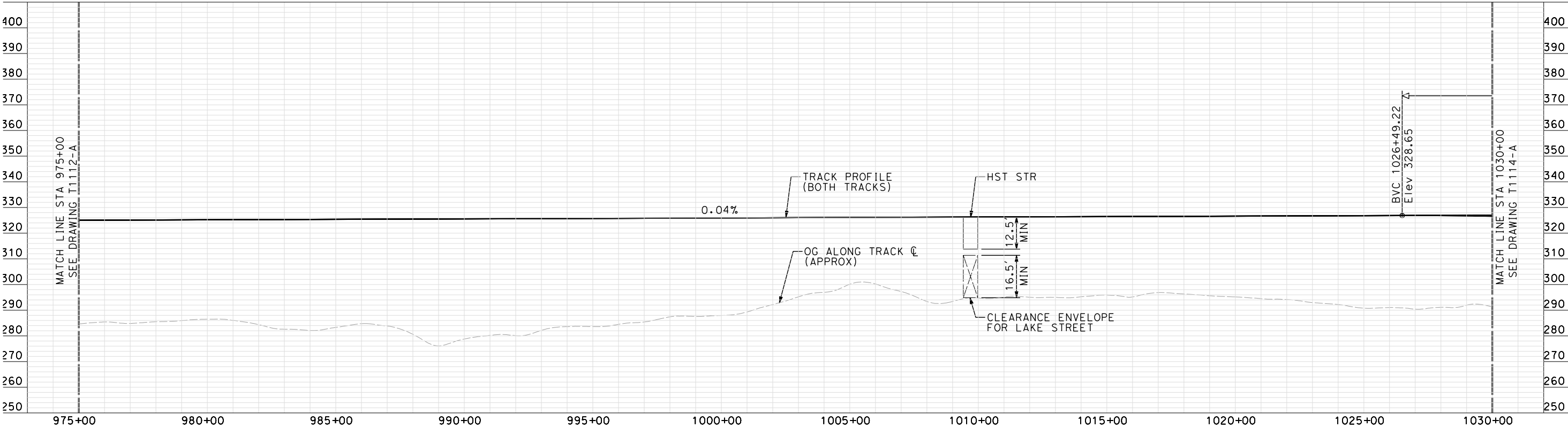
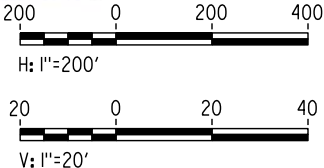
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

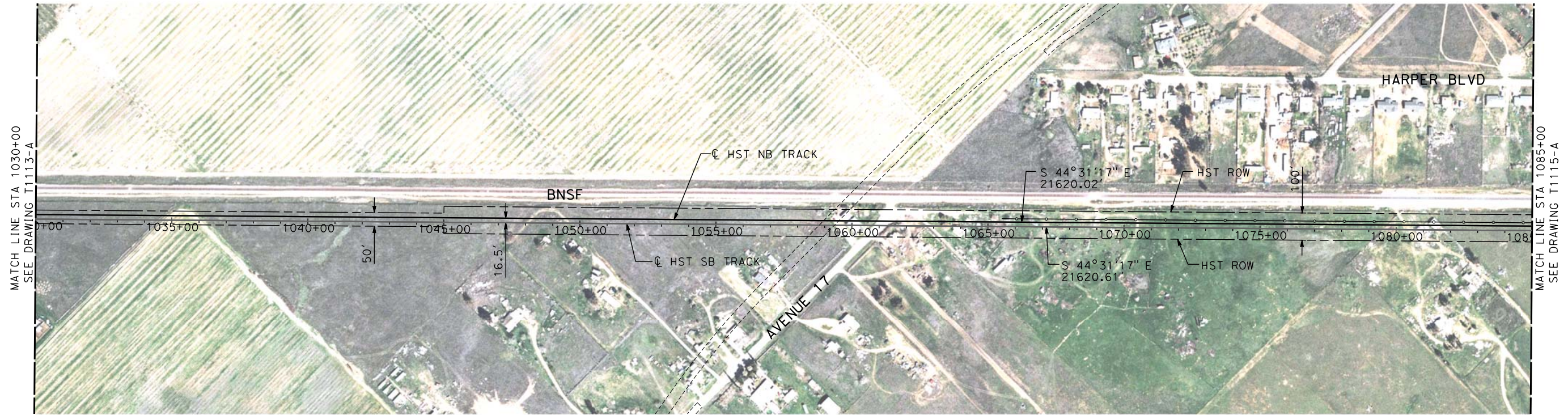
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE

PLAN AND PROFILE
STA 975+00 TO STA 1030+00

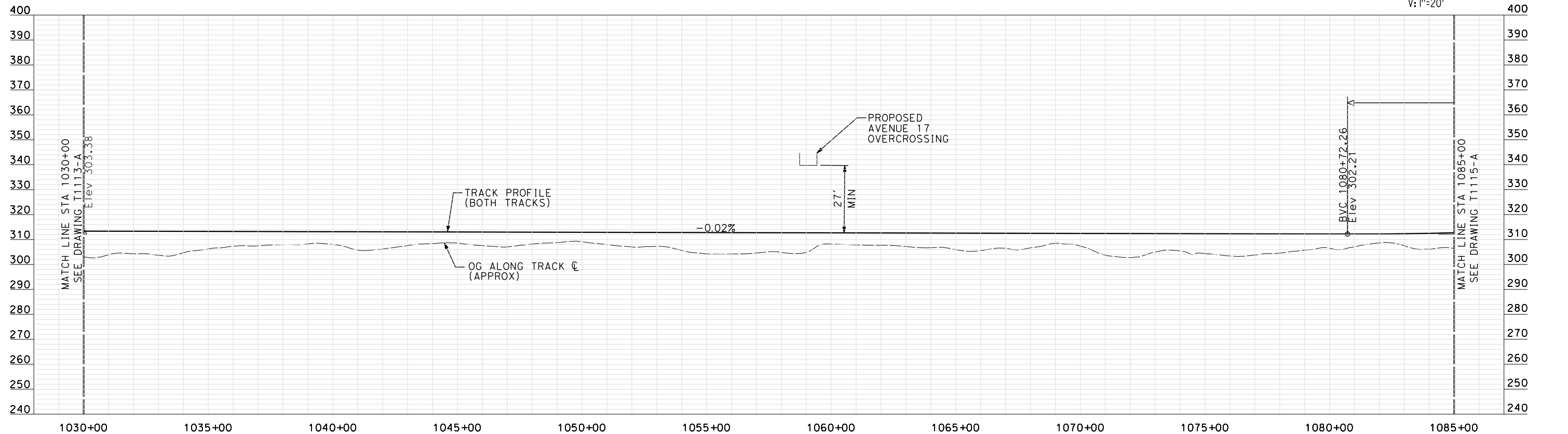
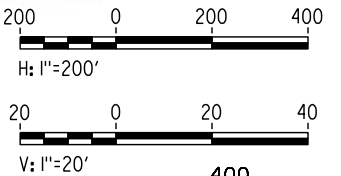
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NOTE:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			SR 145 REDESIGN

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
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SUBMITTAL

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CONSTRUCTION

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Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL



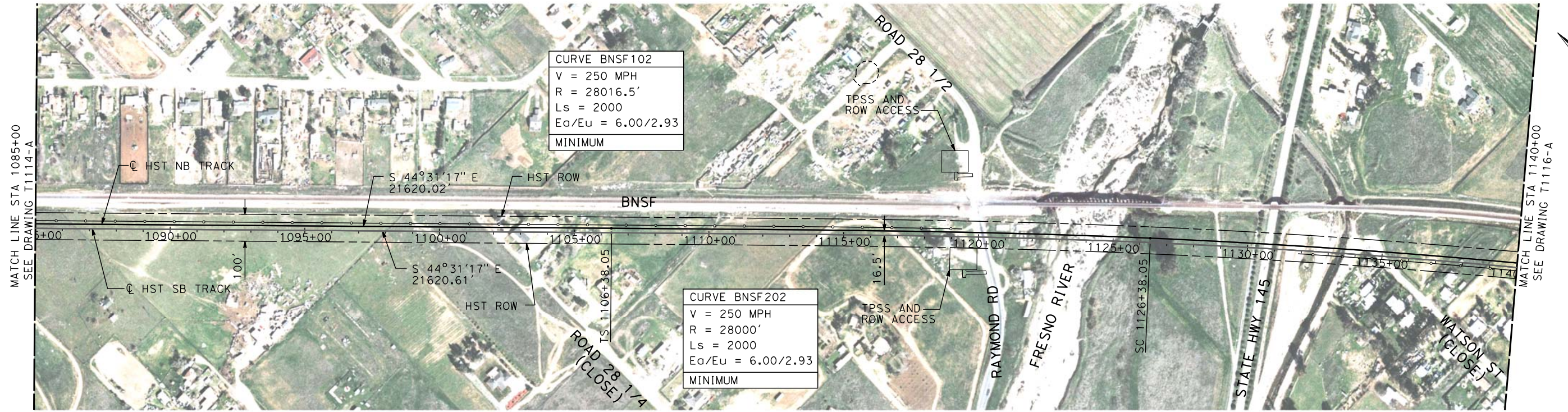
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE

PLAN AND PROFILE
STA 1030+00 TO STA 1085+00

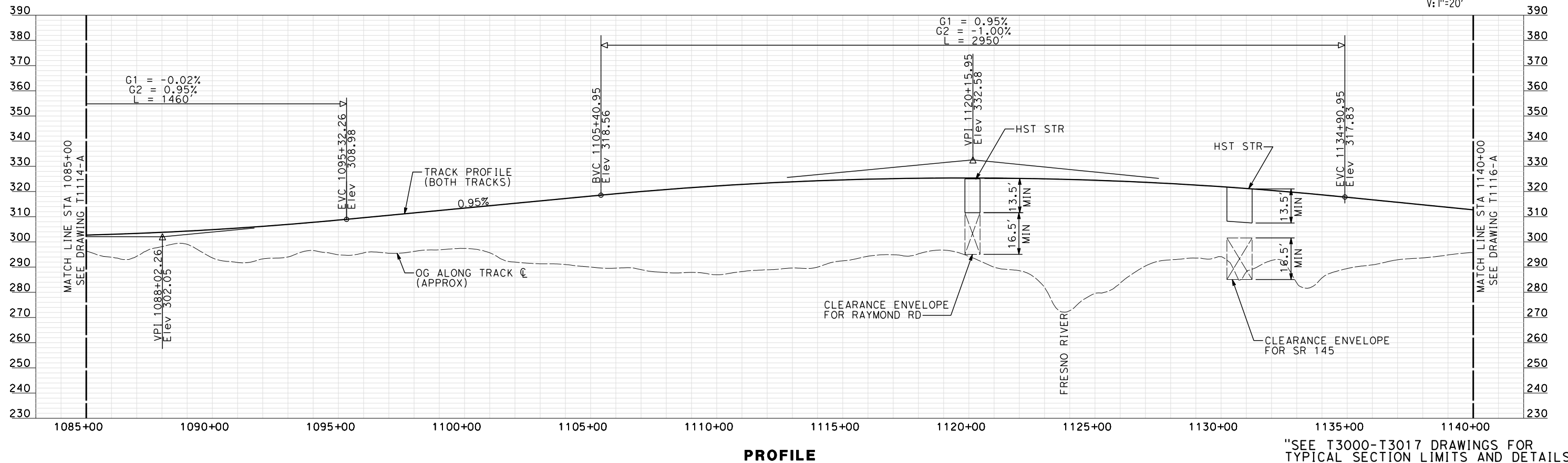
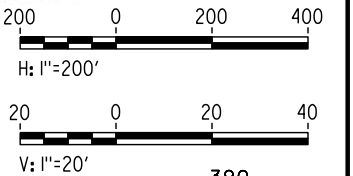
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SHEET NO. ### OF ###

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NOTE:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			SR 145 REDESIGN

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

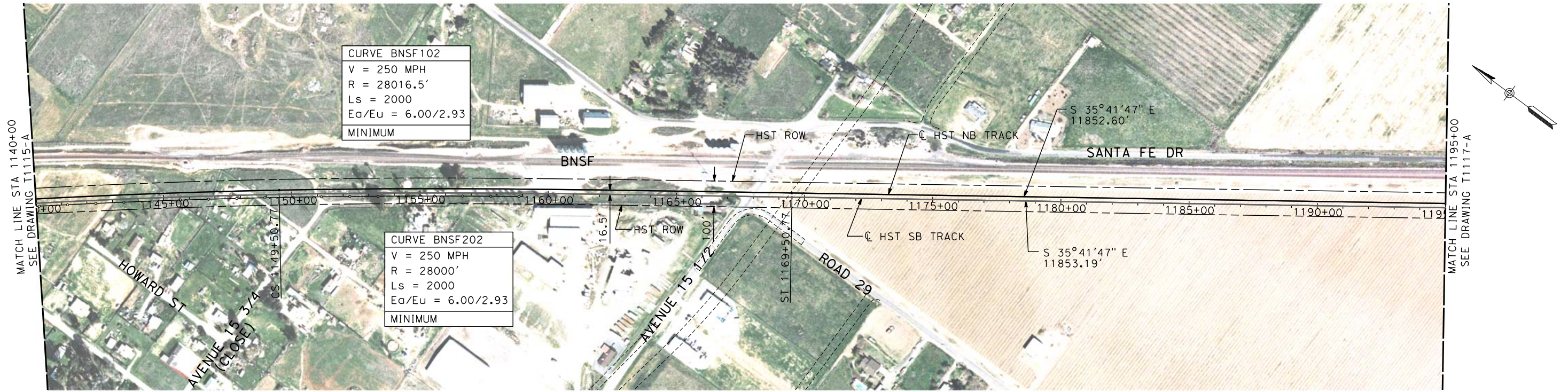
BNSF MAIN LINE

PLAN AND PROFILE
STA 1085+00 TO STA 1140+00

CONTRACT NO. HSR06-007
DRAWING NO. T1115-A
SCALE AS SHOWN
SHEET NO. ### OF ###

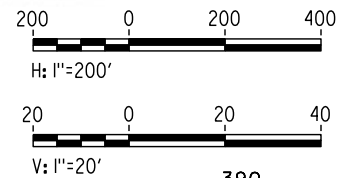
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NOTE:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT / SR 145 REDESIGN

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
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Technical Services, Inc.
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Sacramento, CA 95811

CH2MHILL



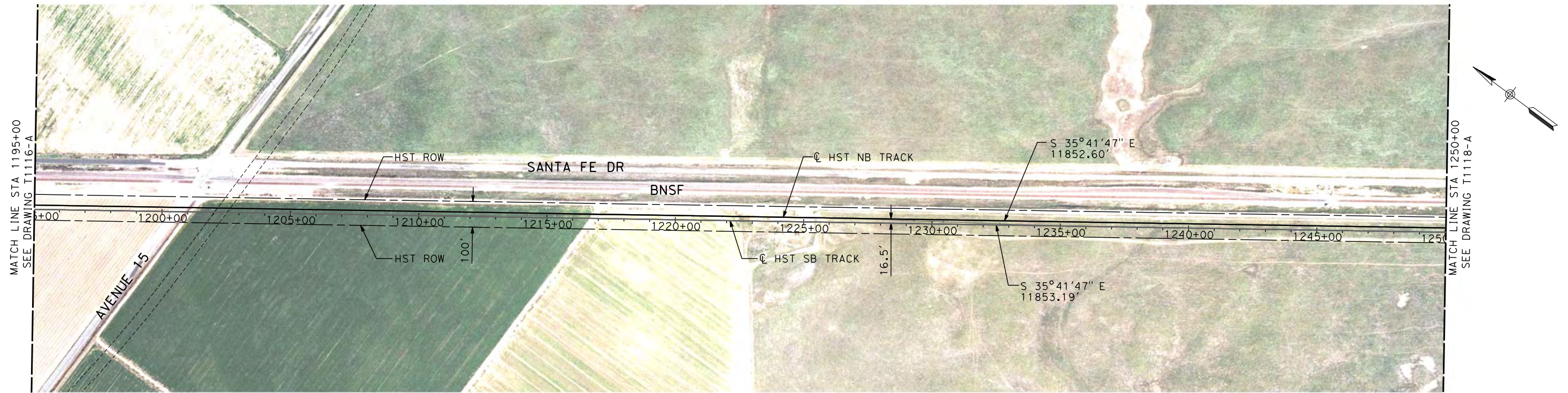
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE

PLAN AND PROFILE
STA 1140+00 TO STA 1195+00

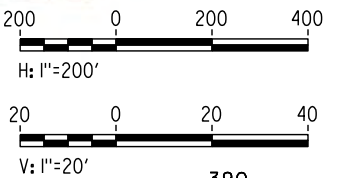
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT / SR 145 REDESIGN

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
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CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



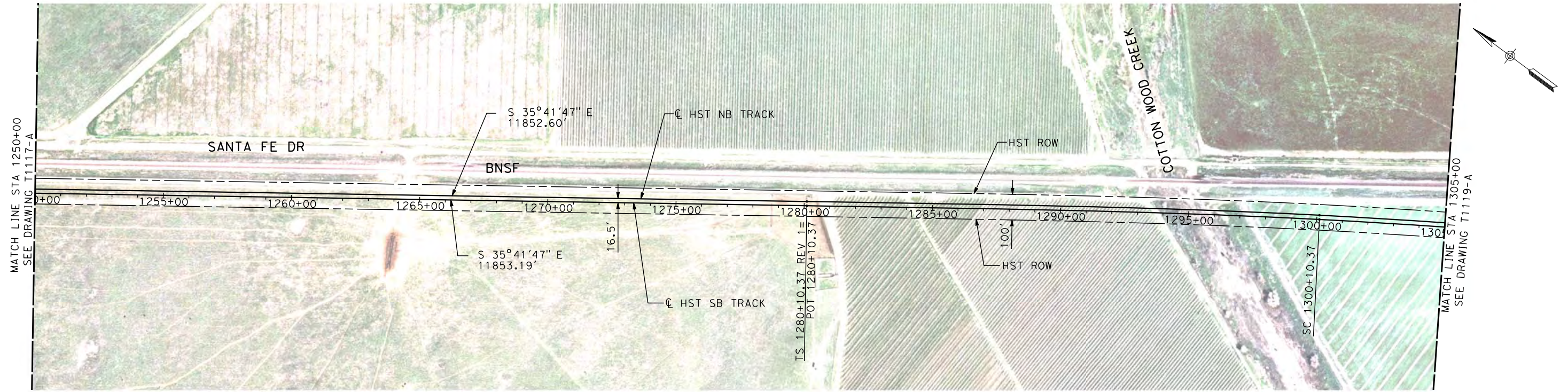
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE

PLAN AND PROFILE
STA 1195+00 TO STA 1250+00

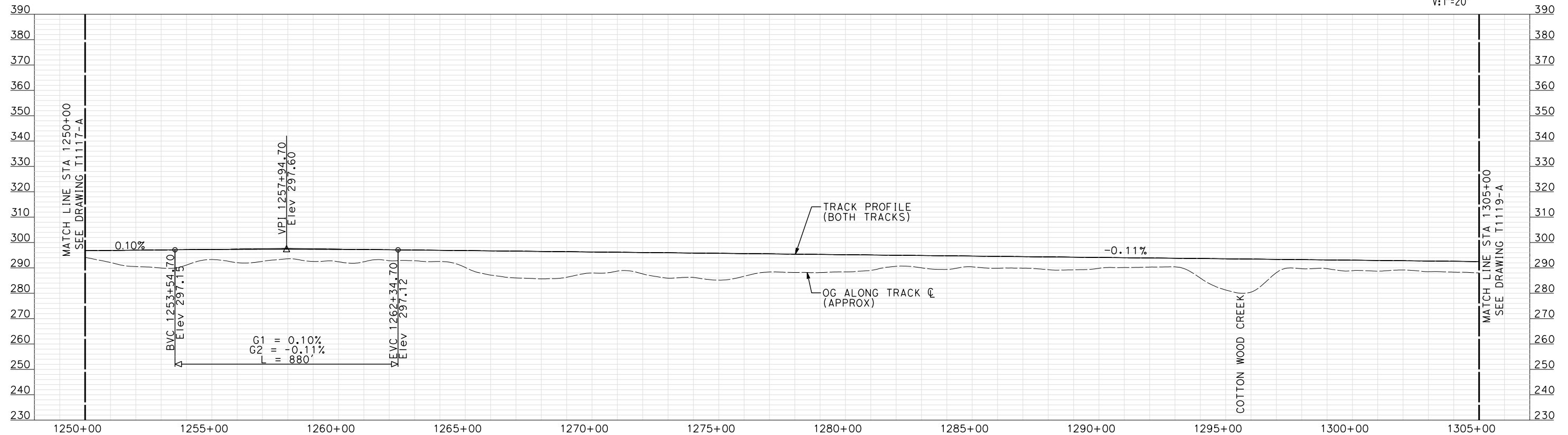
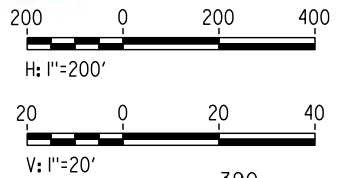
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

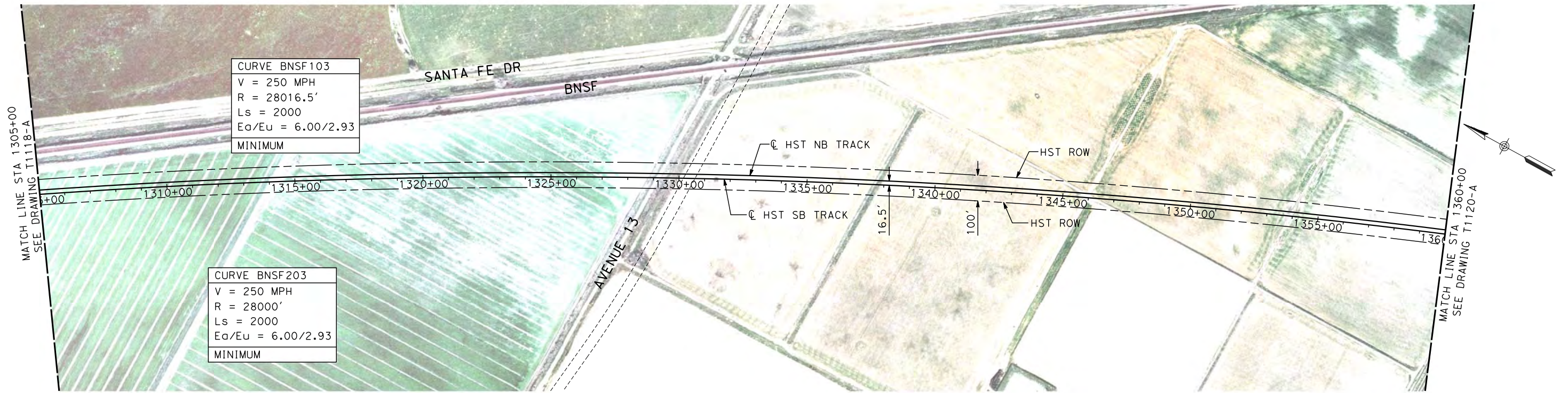


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
PLAN AND PROFILE
STA 1250+00 TO STA 1305+00

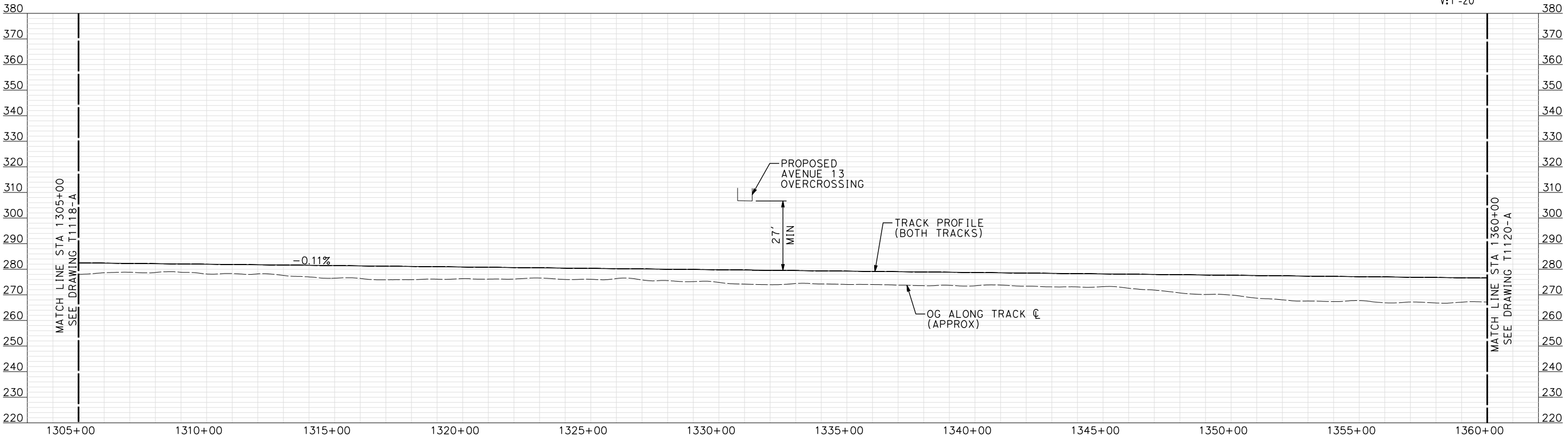
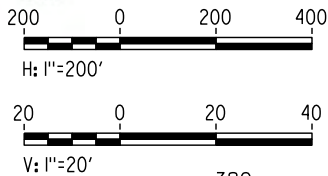
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DRAWING NO. T1118-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

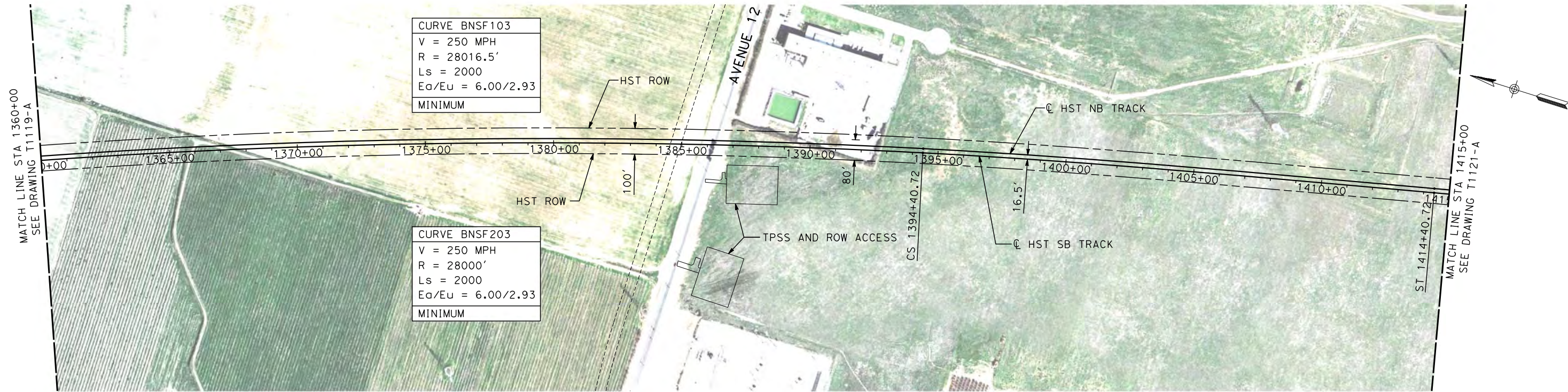


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
PLAN AND PROFILE
STA 1305+00 TO STA 1360+00

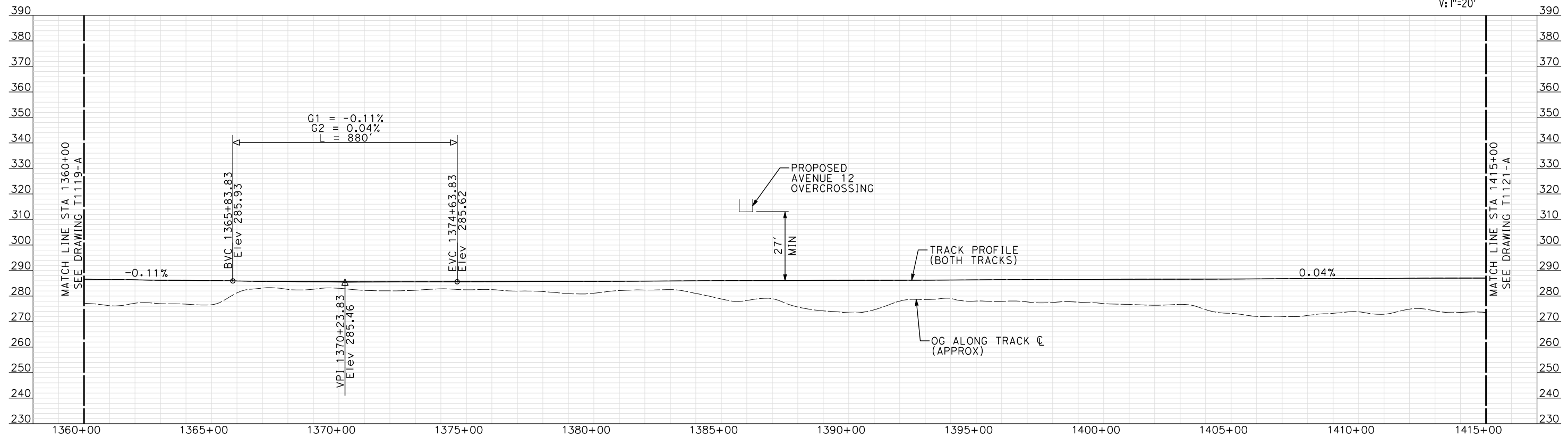
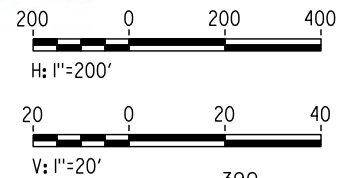
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DRAWING NO.
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AS SHOWN
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OF

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NOTE:
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BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811
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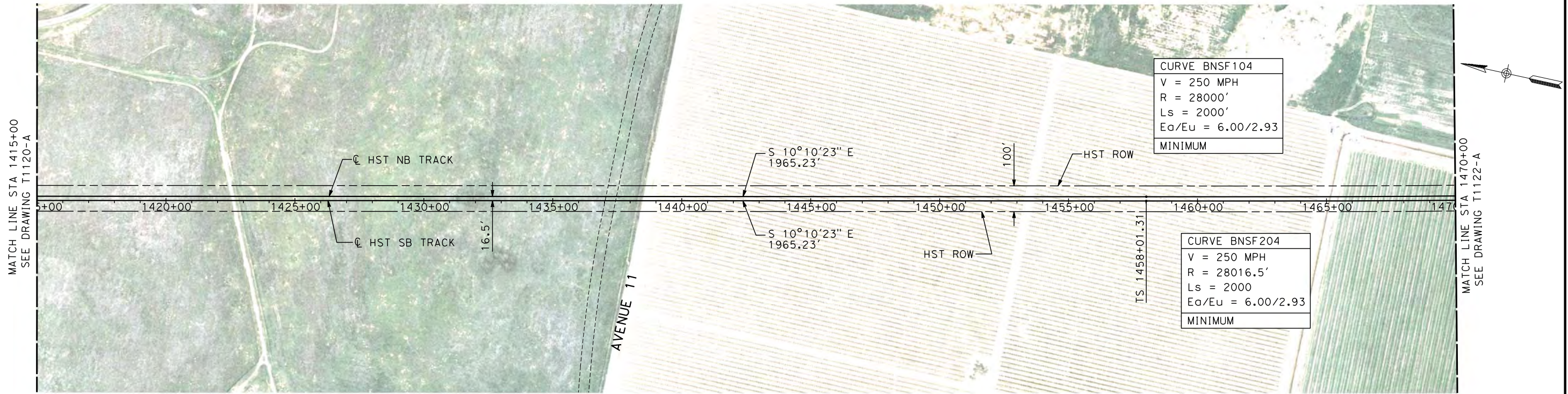
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE

PLAN AND PROFILE
STA 1360+00 TO STA 1415+00

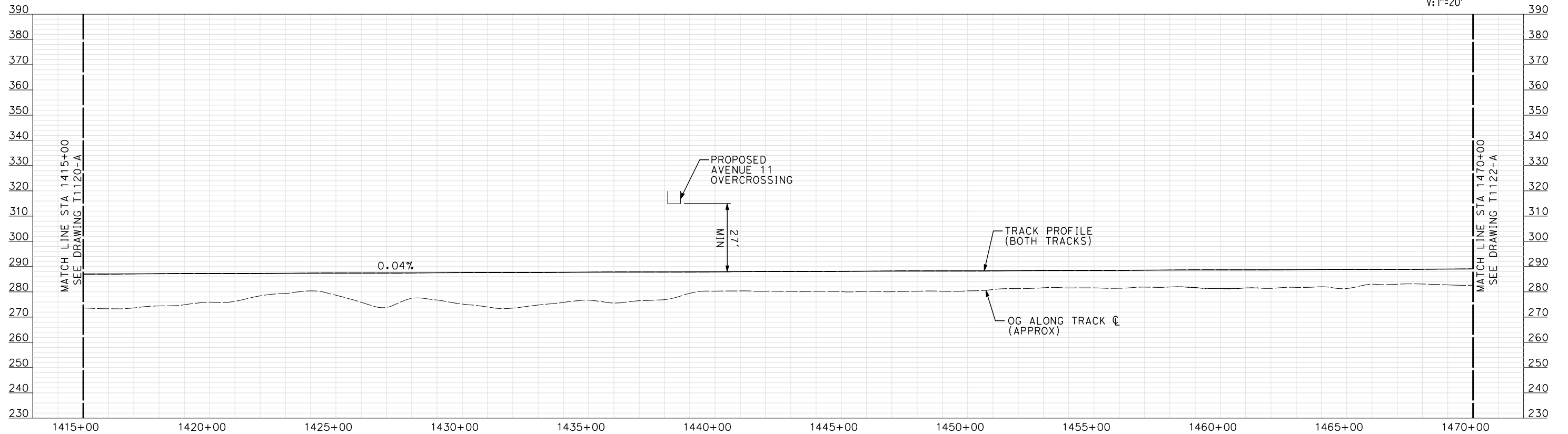
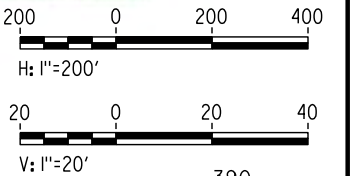
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DRAWING NO.
T1120-A
SCALE
AS SHOWN
SHEET NO.
OF

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NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN

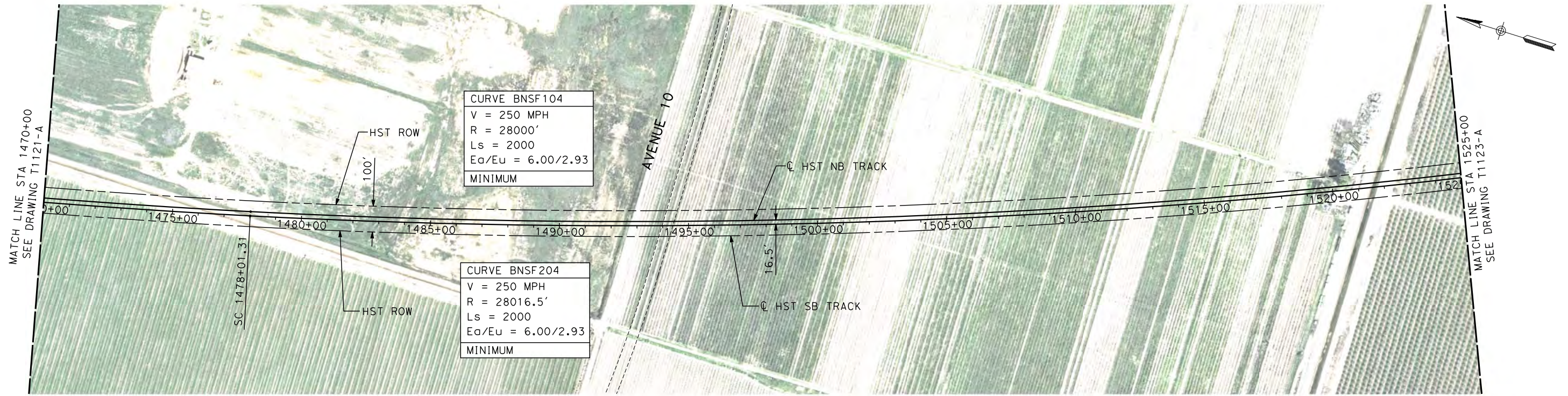


PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

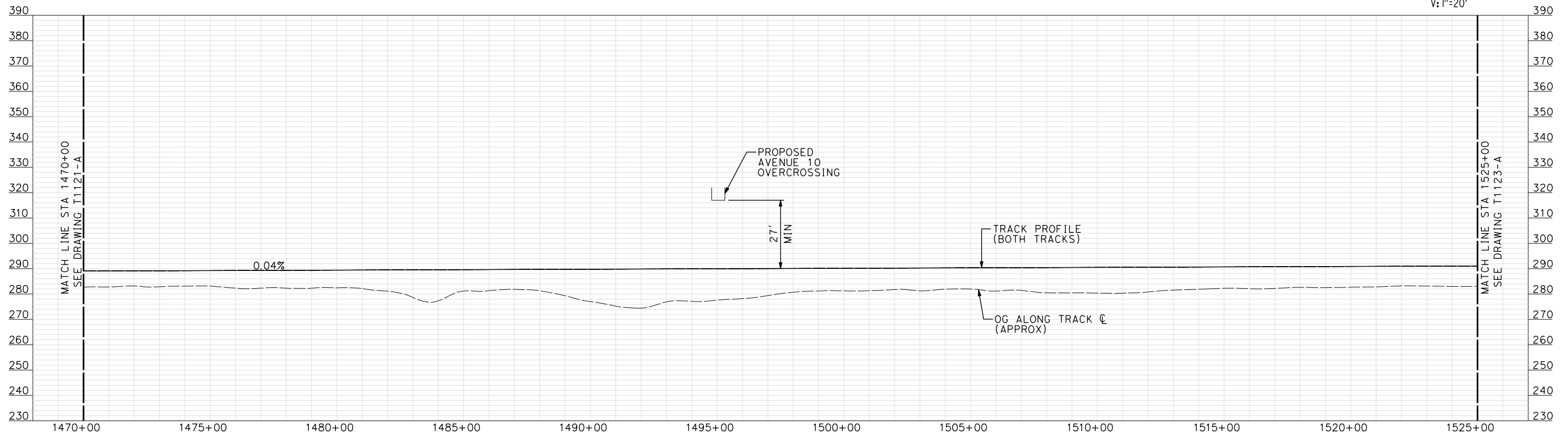
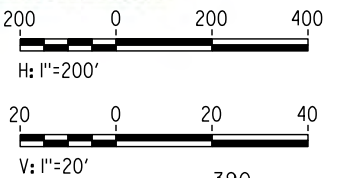
						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL	<div><div>AECOM</div><div>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div><div>CH2MHILL</div></div>	<div><div></div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE PLAN AND PROFILE STA 1415+00 TO STA 1470+00		CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN	DRAWING NO. T1121-A						
					CHECKED BY A. BOONE	SCALE AS SHOWN						
					IN CHARGE A. BOONE	SHEET NO. ### OF ###						
1	12/12/2011	AS			TRACK REALIGNMENT	DATE 07/27/2011	NOT FOR CONSTRUCTION					
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shieldsa



NOTE:
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INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
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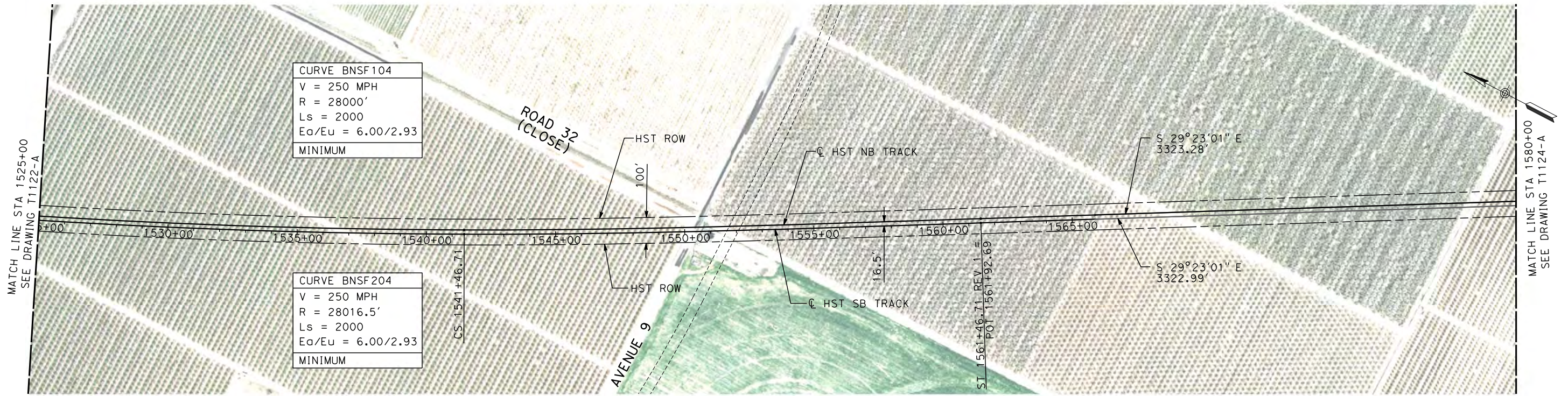


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
PLAN AND PROFILE
STA 1470+00 TO STA 1525+00

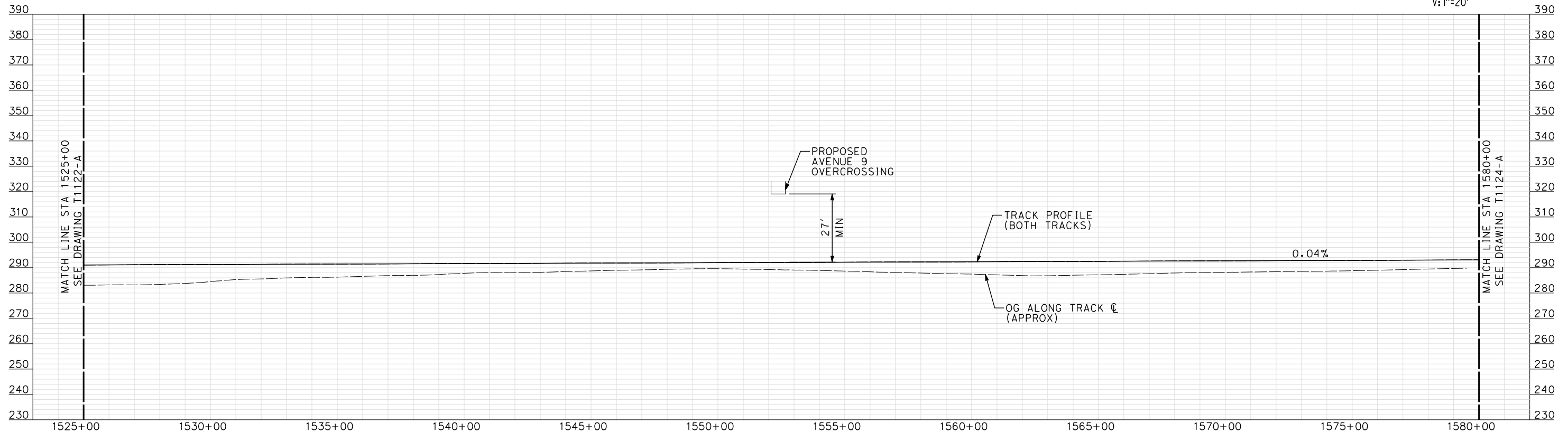
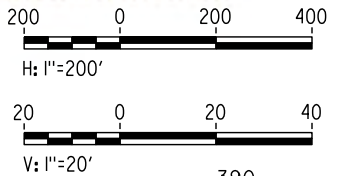
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shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

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CONSTRUCTION

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Sacramento, CA 95811
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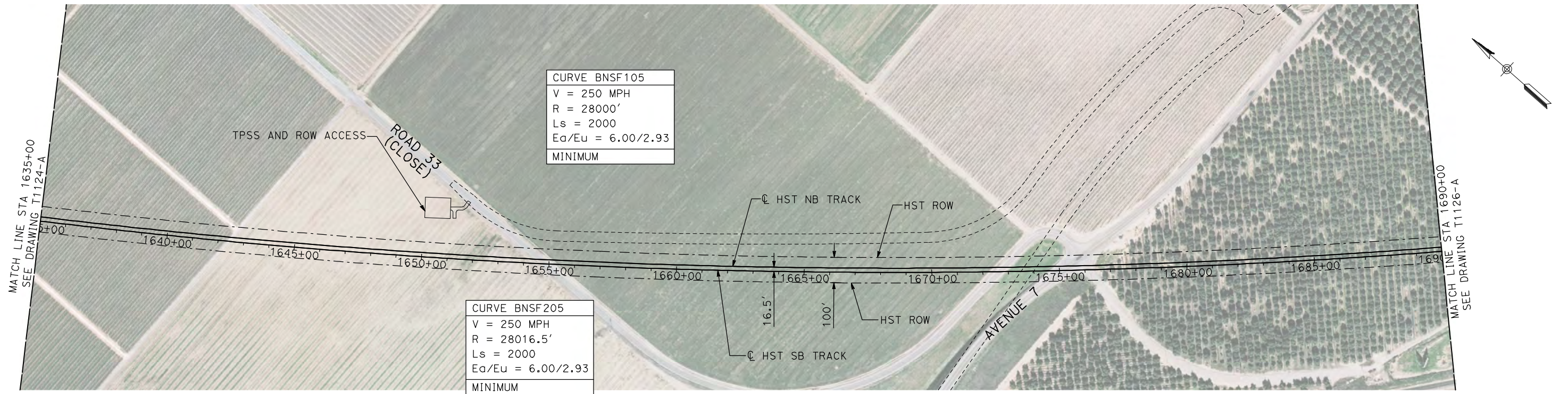
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE

PLAN AND PROFILE
STA 1525+00 TO STA 1580+00

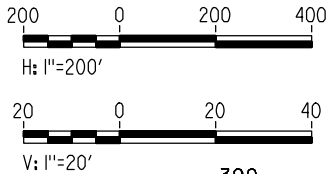
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SHEET NO. ### OF ###

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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION



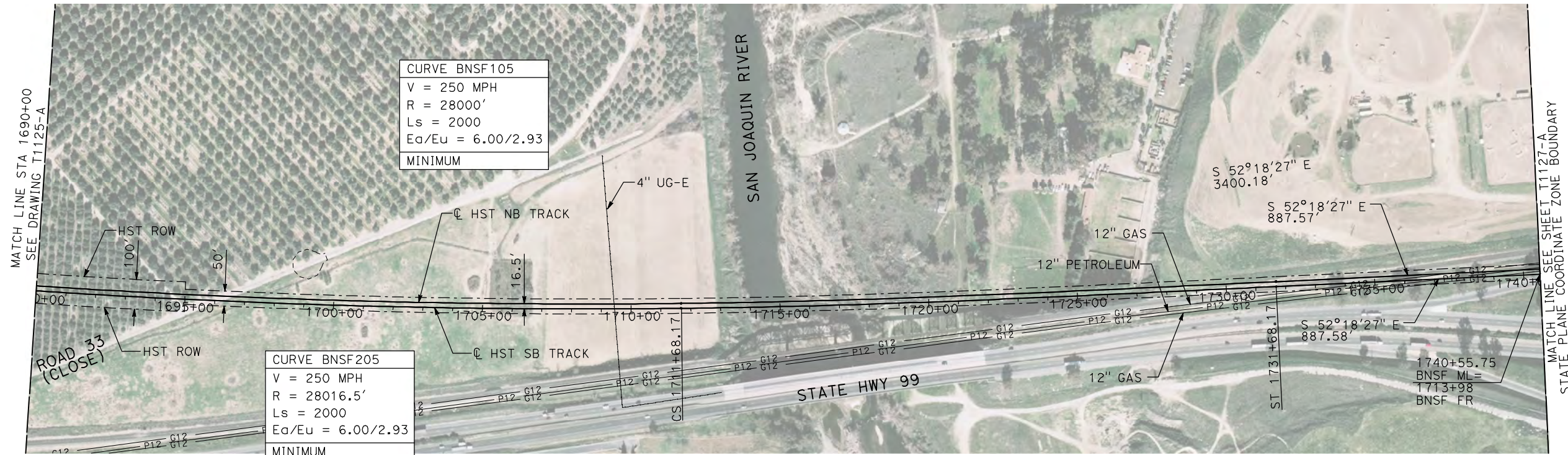
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE

PLAN AND PROFILE
STA 1635+00 TO STA 1690+00

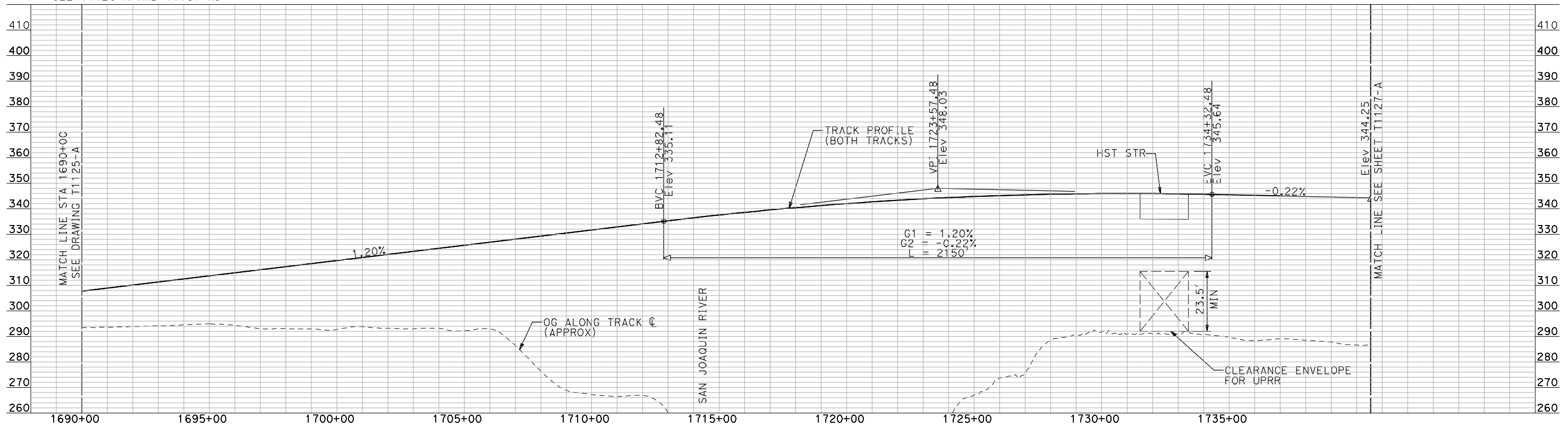
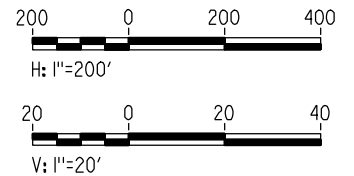
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T1128-A AND T1131-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

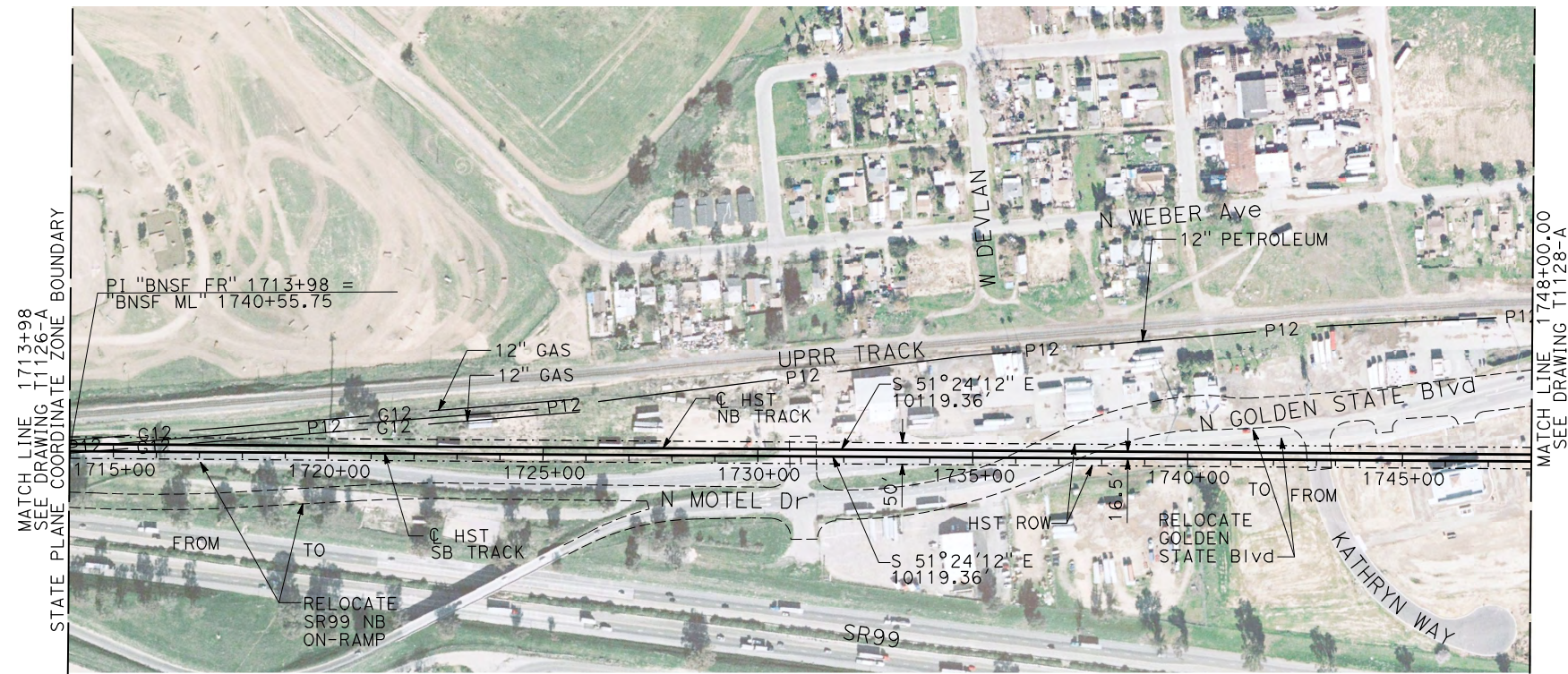


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

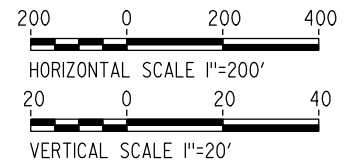
BNSF MAIN LINE

PLAN AND PROFILE
STA 1690+00 TO STA 1740+55.75

CONTRACT NO. HSR06-007
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SHEET NO. ### OF ###

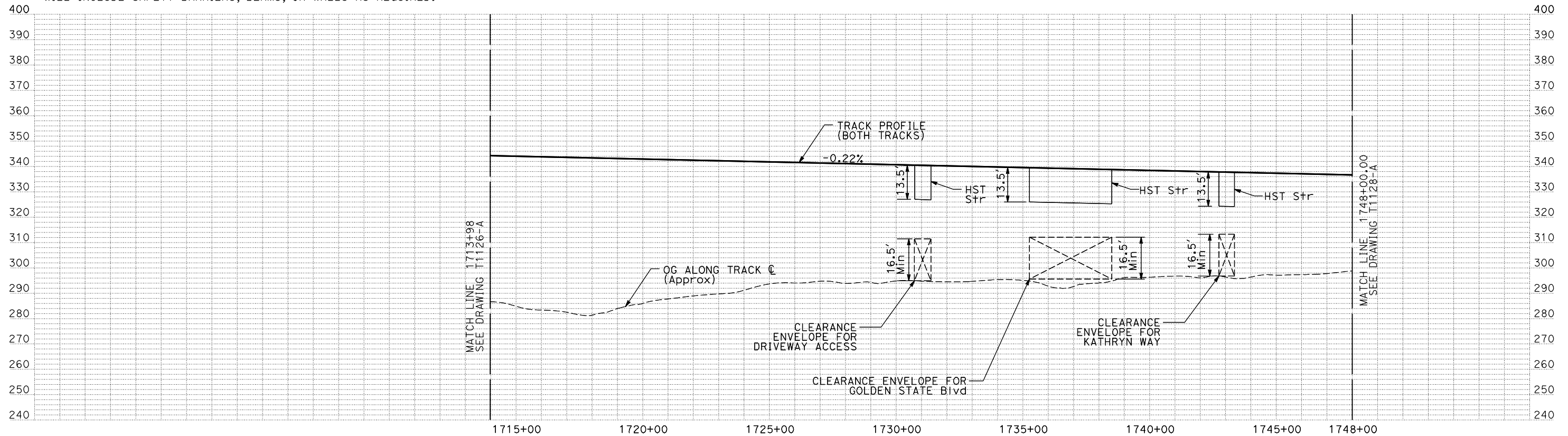


PLAN



NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

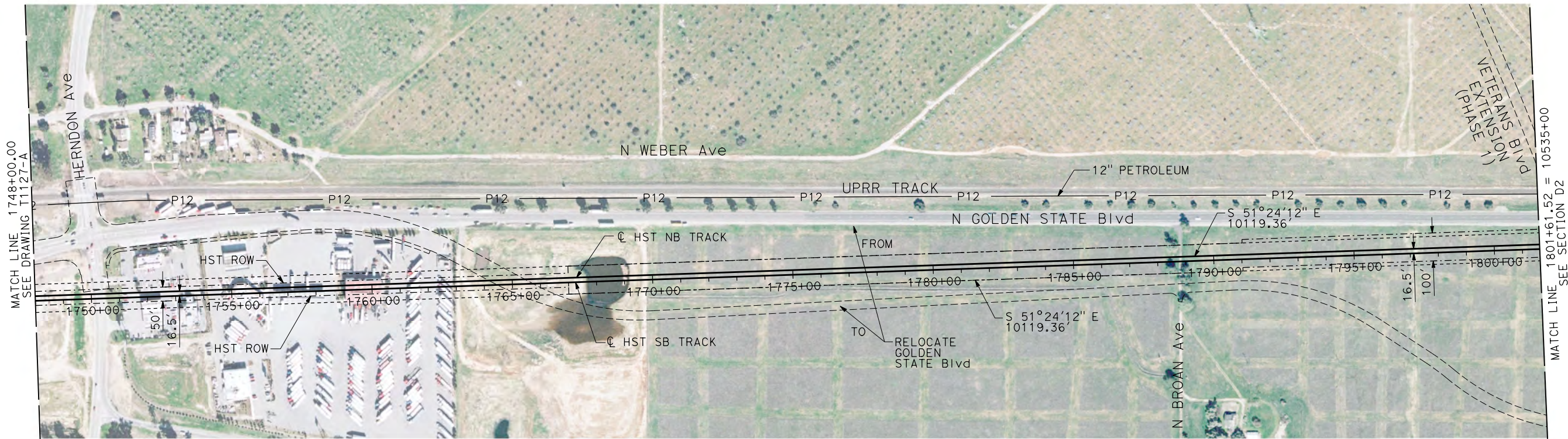
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PLAN AND PROFILE
STA 1713+98 TO STA 1748+00

CONTRACT NO. HSR06-007
DRAWING NO. T1127-A
SCALE AS SHOWN
SHEET NO.

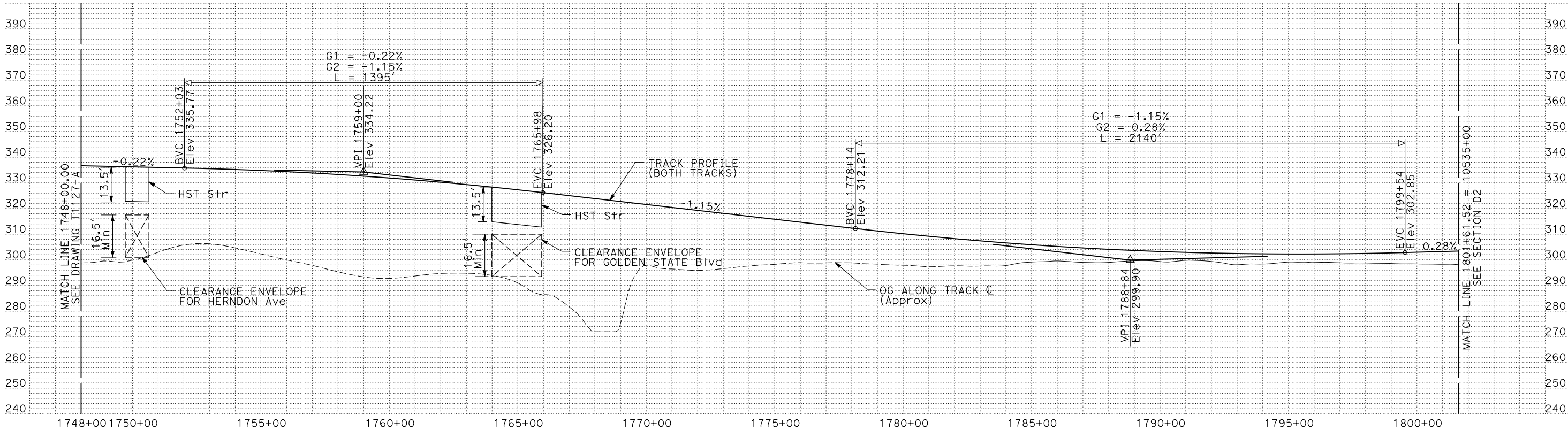
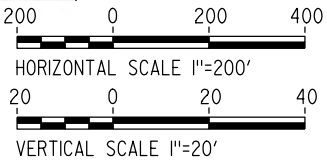
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DATE PLOTTED => 20-JUL-2011
TIME PLOTTED => 13:13



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION



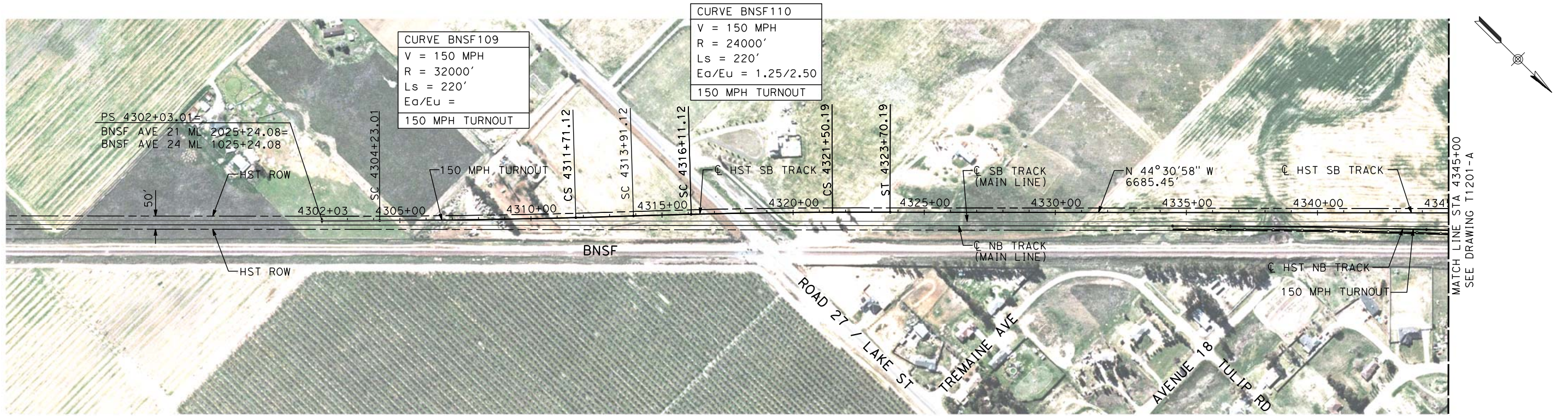
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE

PLAN AND PROFILE
STA 1748+00 TO STA 1801+61.52

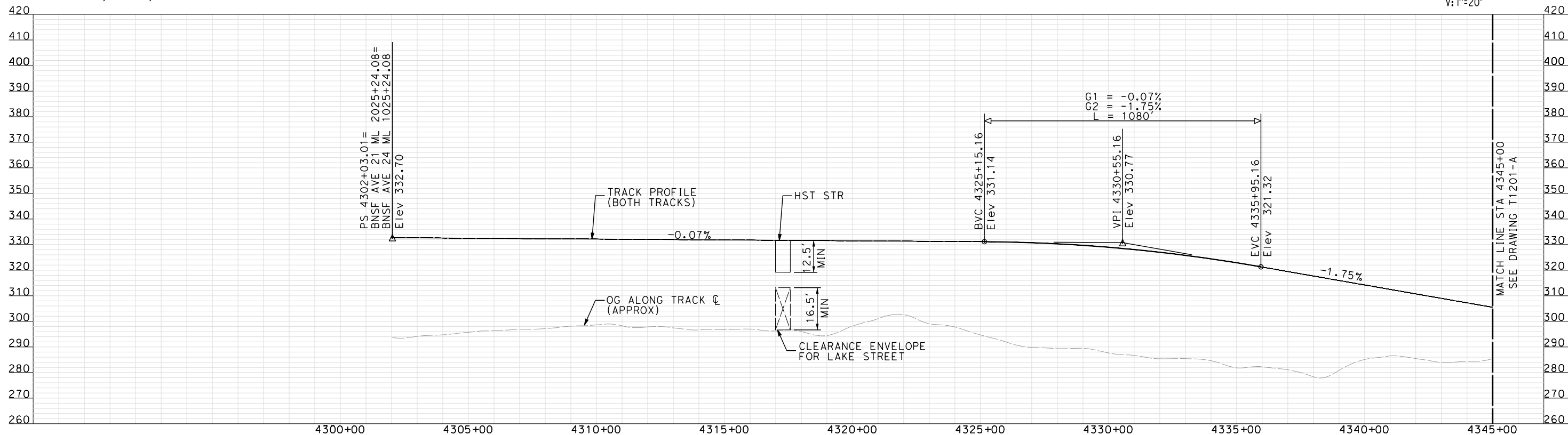
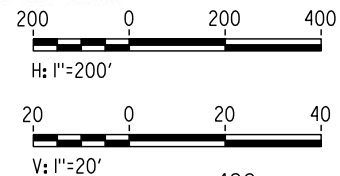
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SCALE AS SHOWN
SHEET NO.

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shieldsa



- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
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SUBMITTAL

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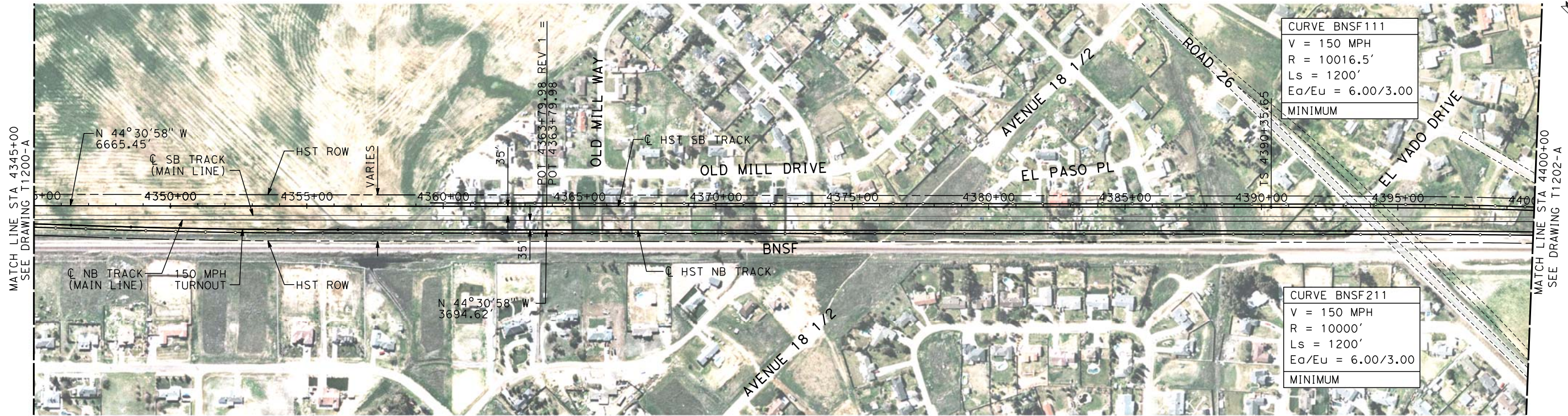
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



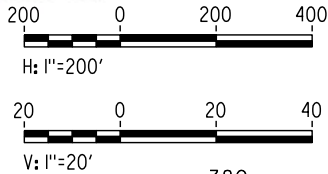
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4302+03.01 TO STA 4345+00

CONTRACT NO. HSR06-007
DRAWING NO. T1200-A
SCALE AS SHOWN
SHEET NO. ### OF ###

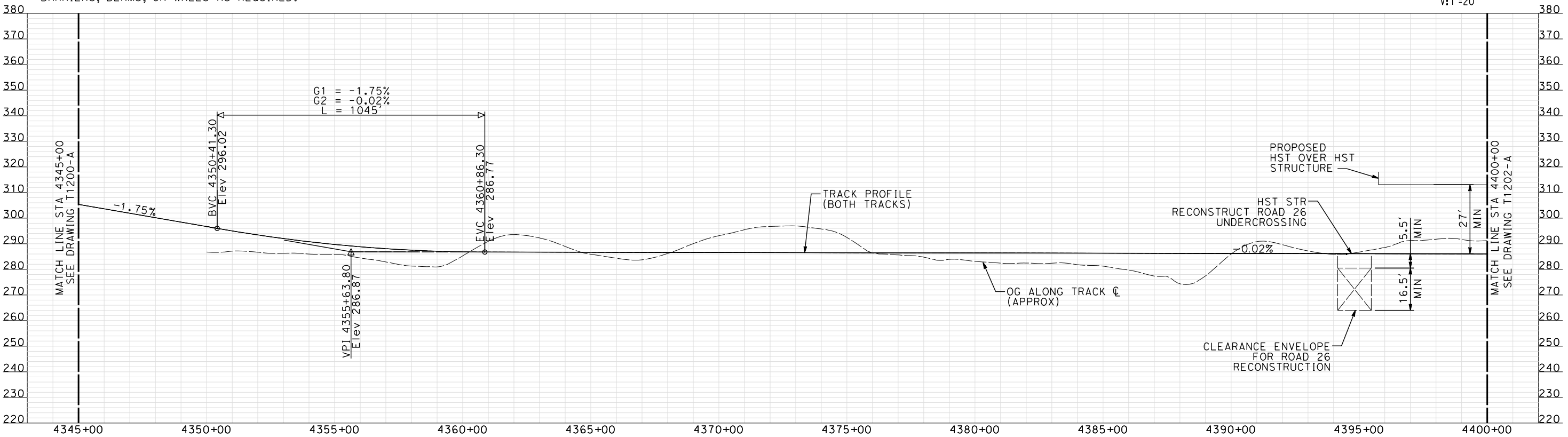
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shieldsa



PLAN



- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
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REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
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A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

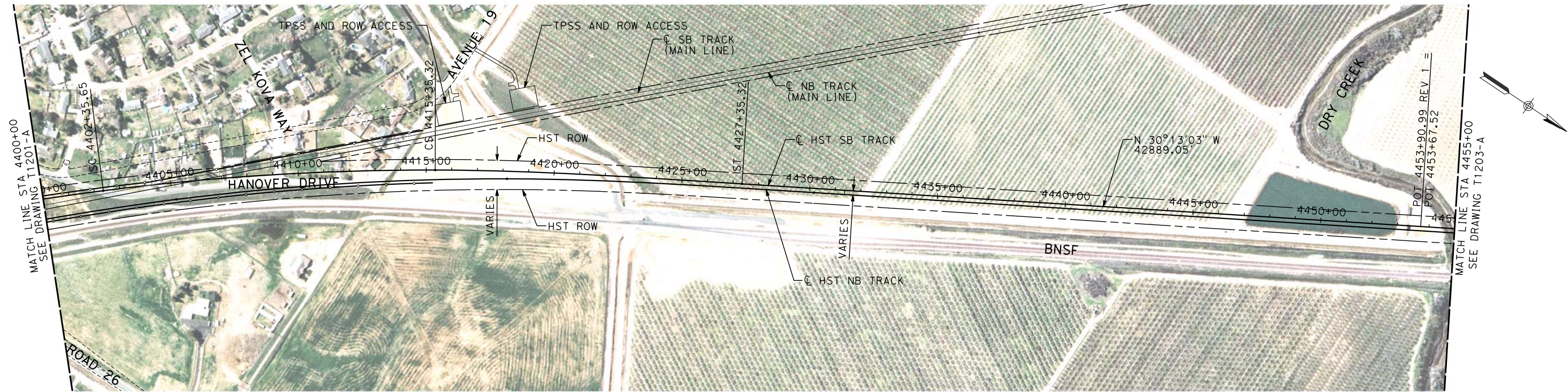


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4345+00 TO STA 4400+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1201-A
SCALE
AS SHOWN
SHEET NO.
OF

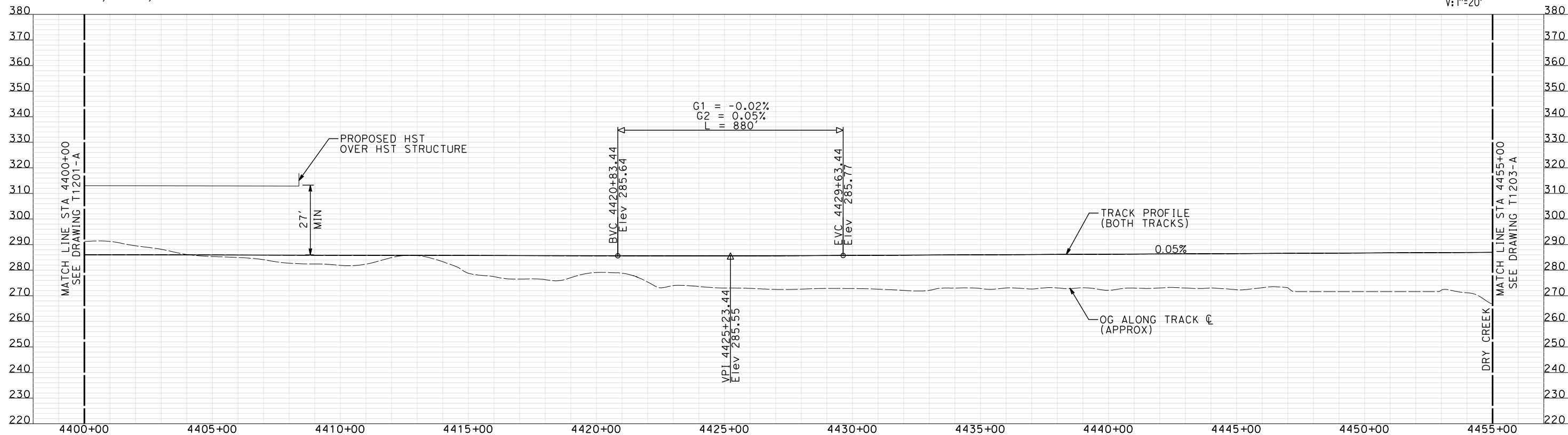
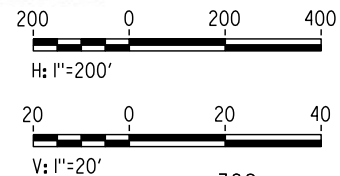
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shieldsa



- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

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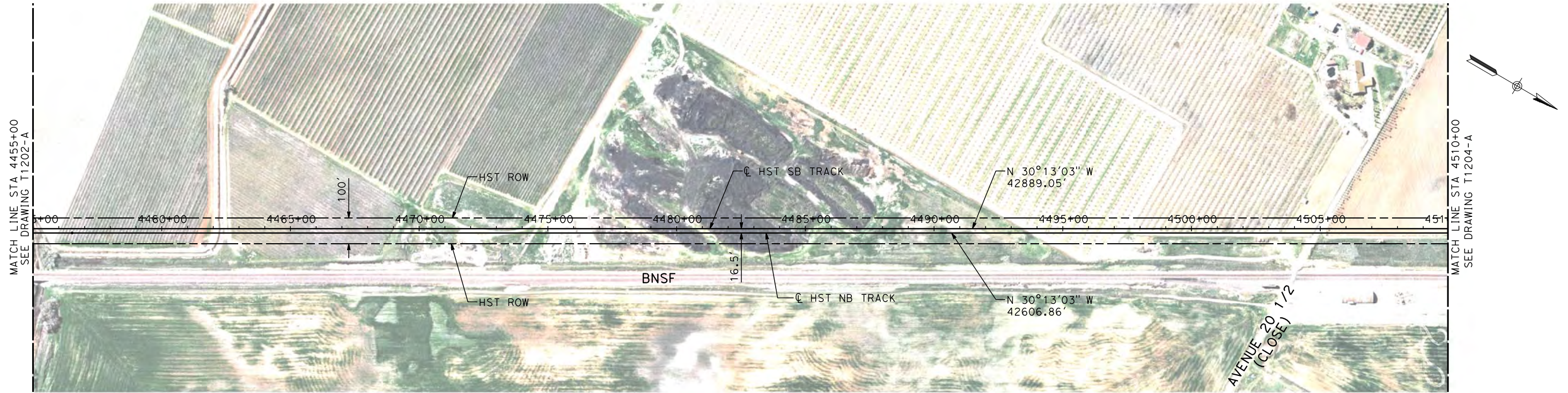
AECOM
Technical Services, Inc.
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Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4400+00 TO STA 4455+00

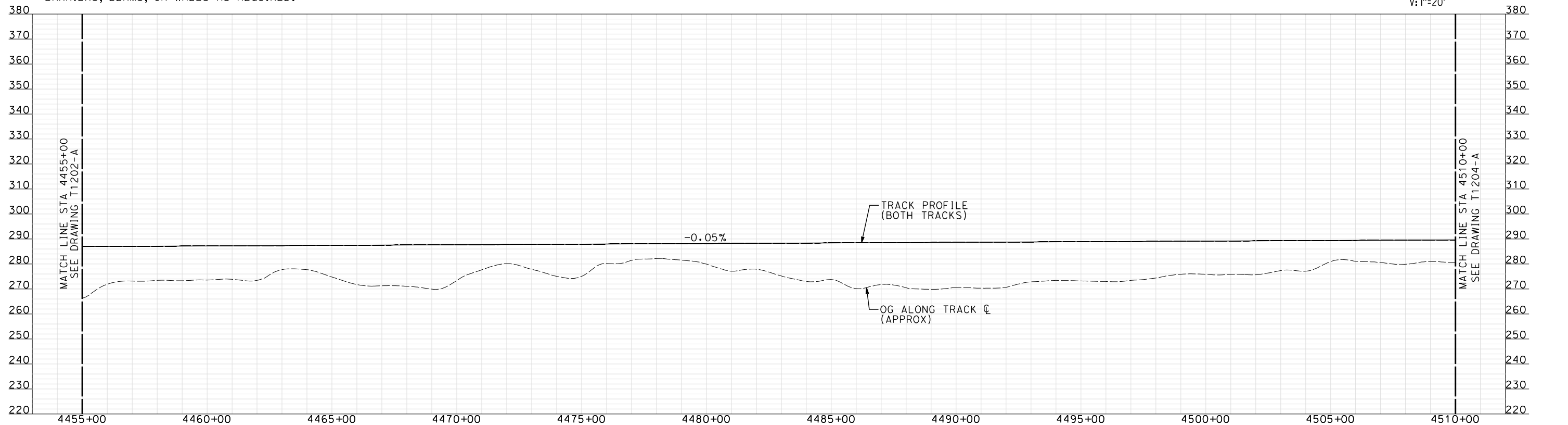
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HSR06-007
DRAWING NO.
T1202-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

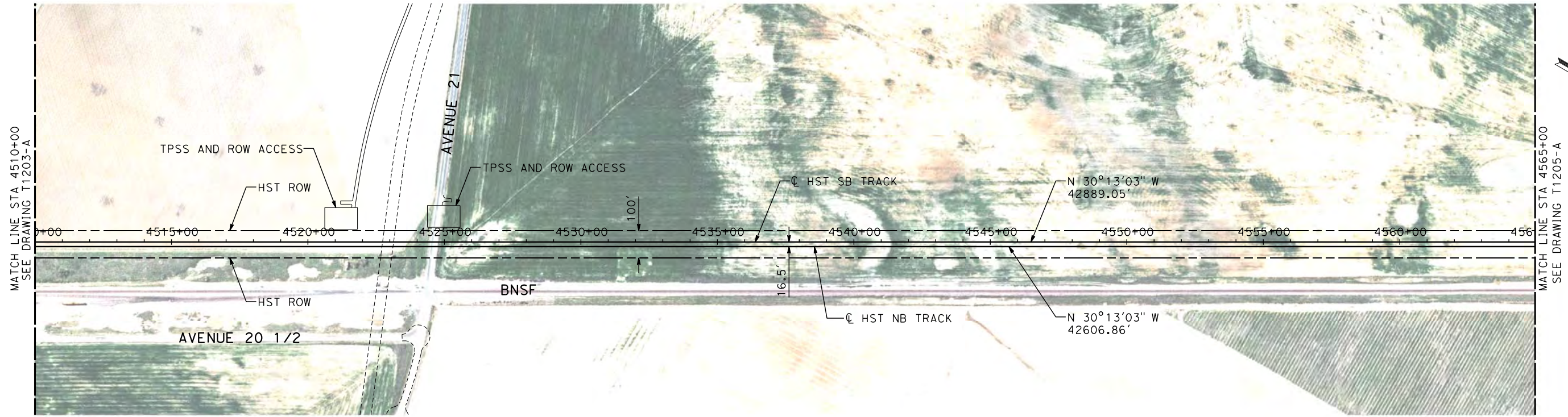
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4455+00 TO STA 4510+00

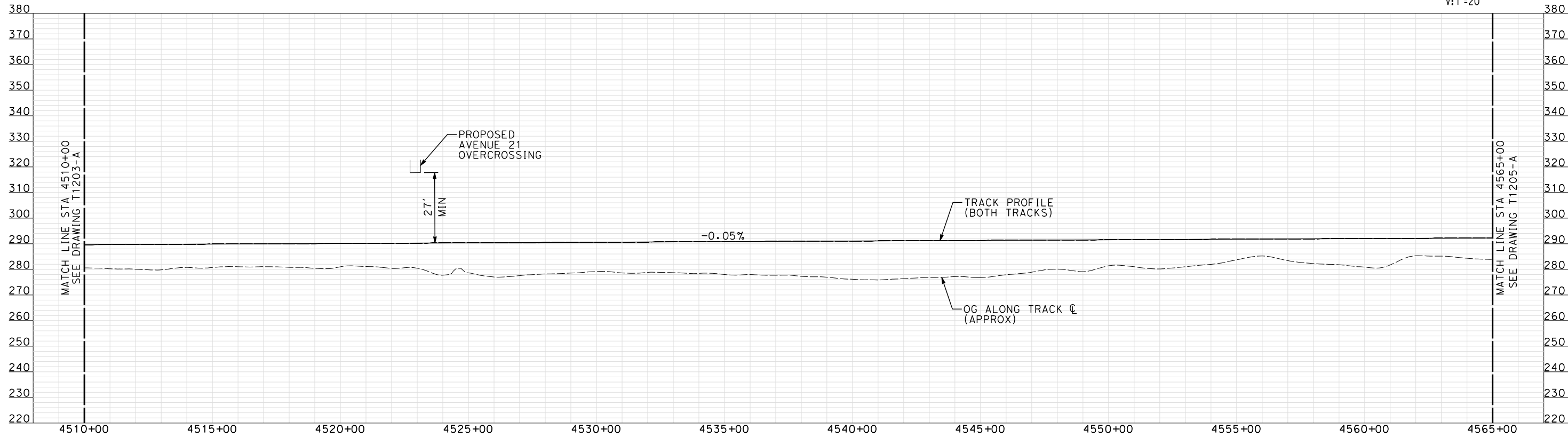
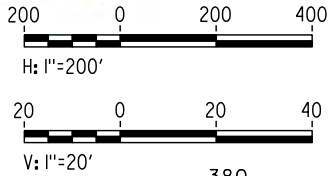
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HSR06-007
DRAWING NO.
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SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

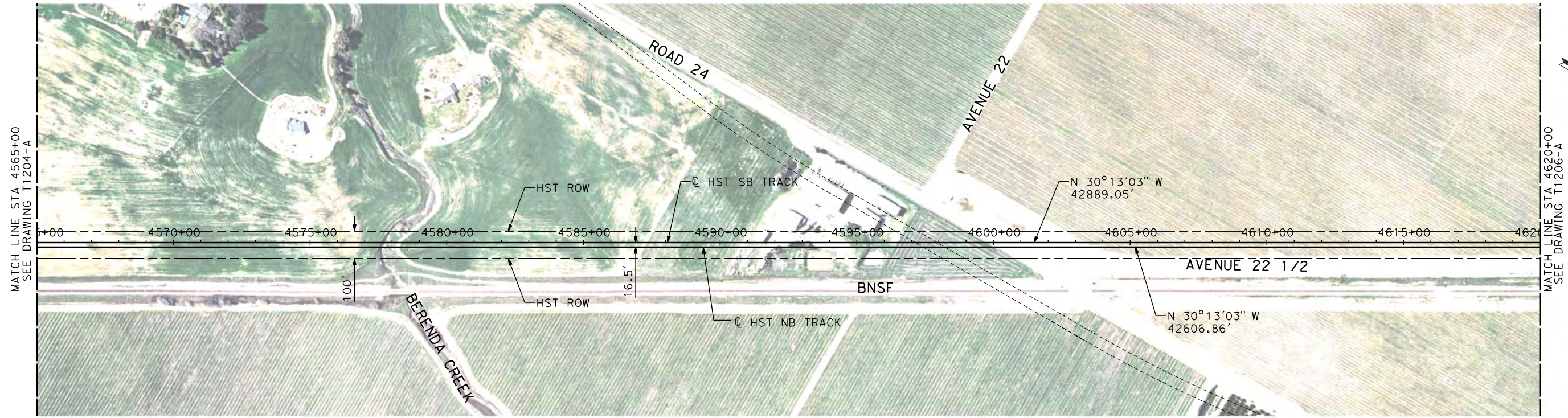
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4510+00 TO STA 4565+00

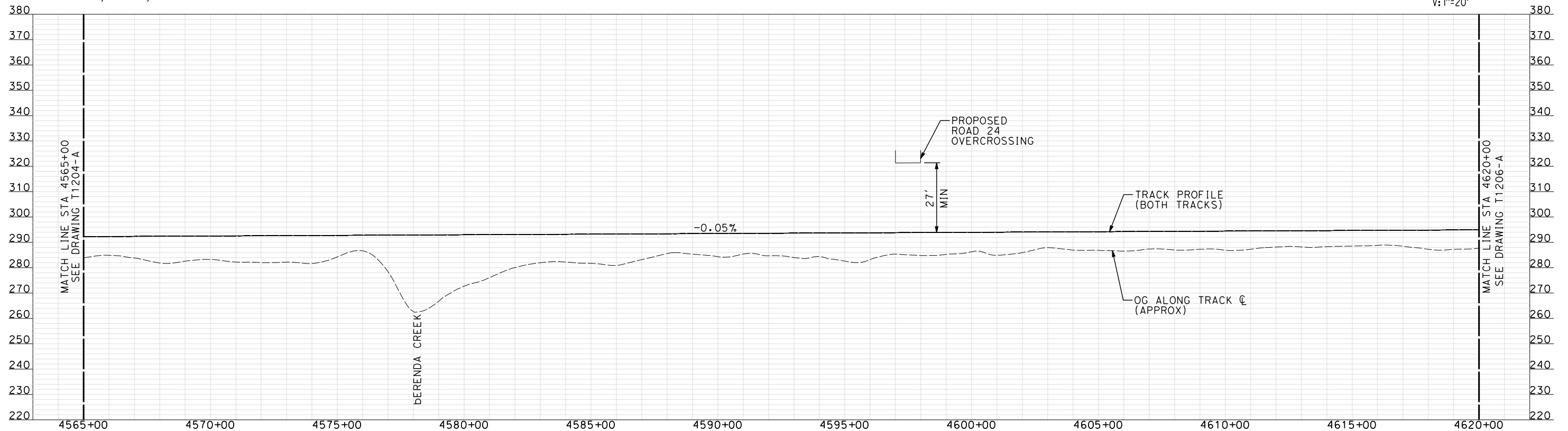
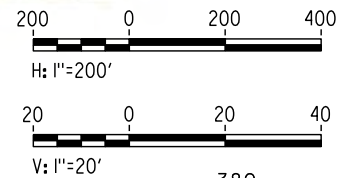
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- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

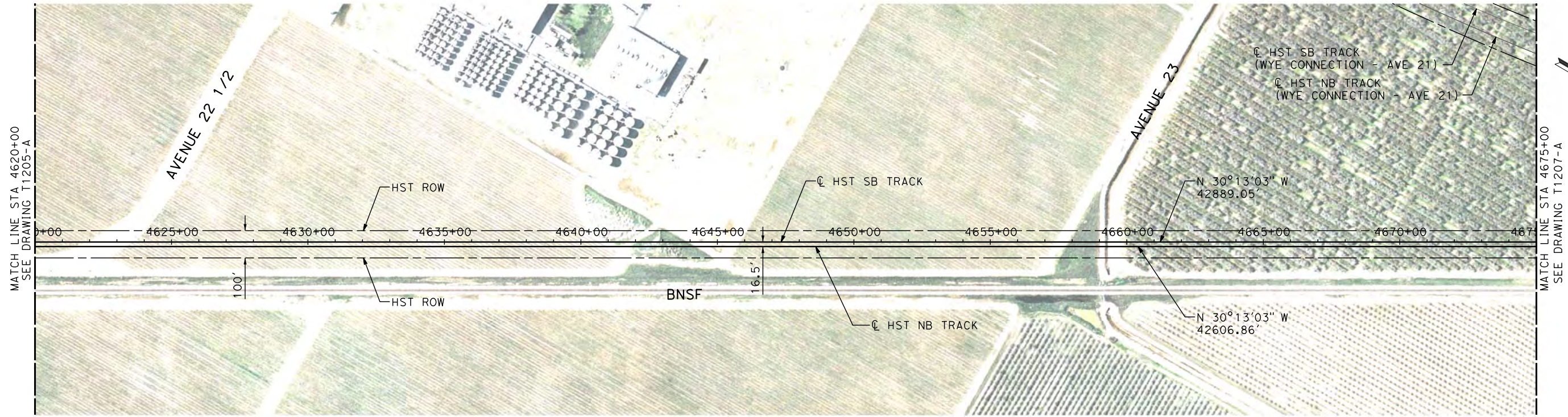


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4565+00 TO STA 4620+00

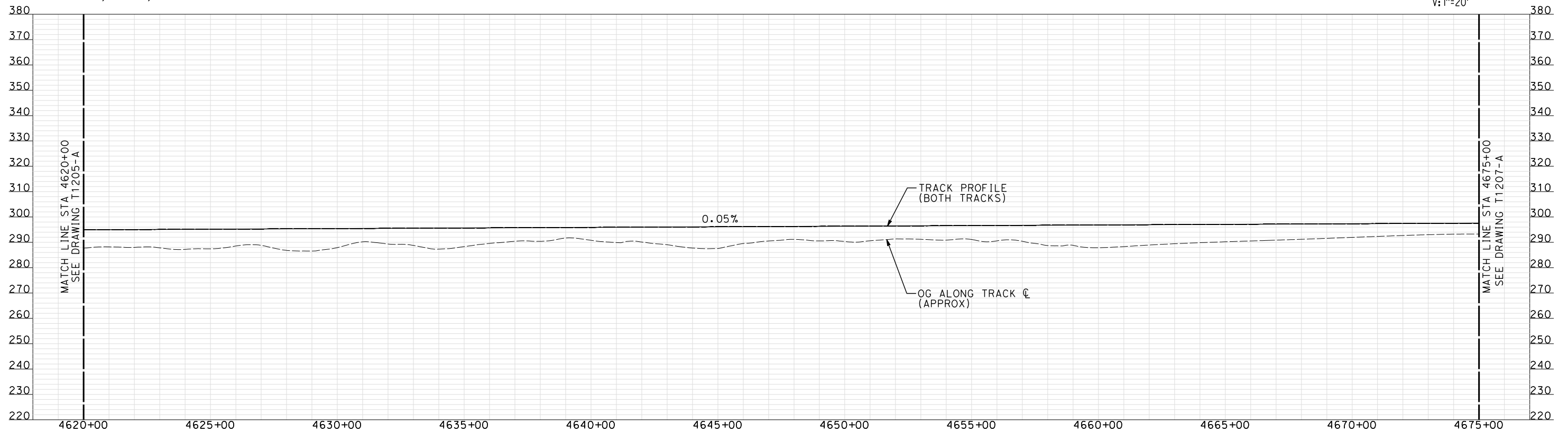
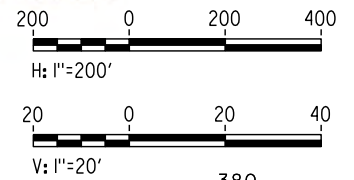
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- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

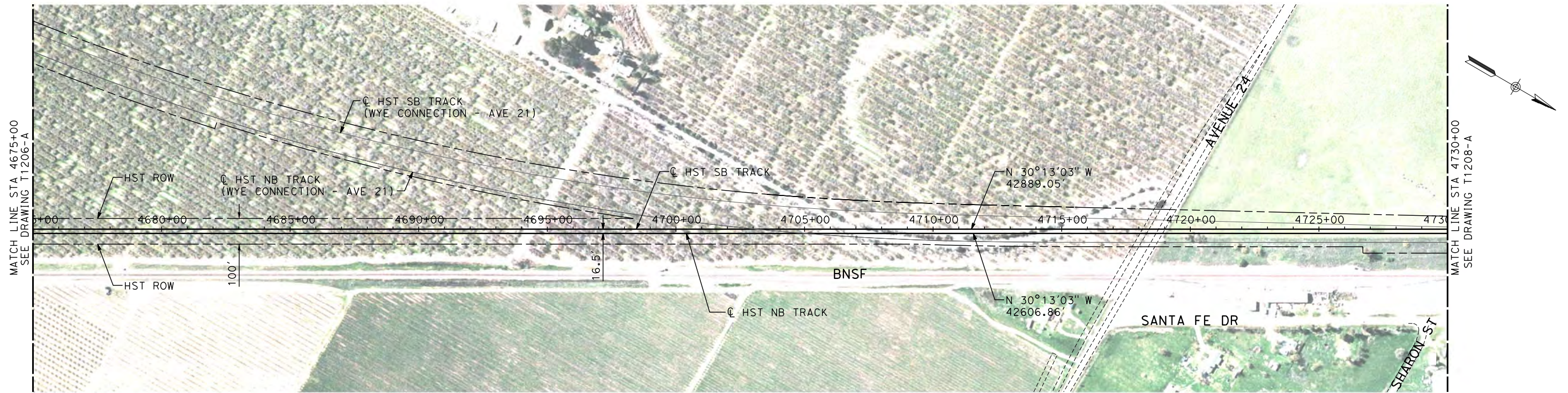


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4620+00 TO STA 4675+00

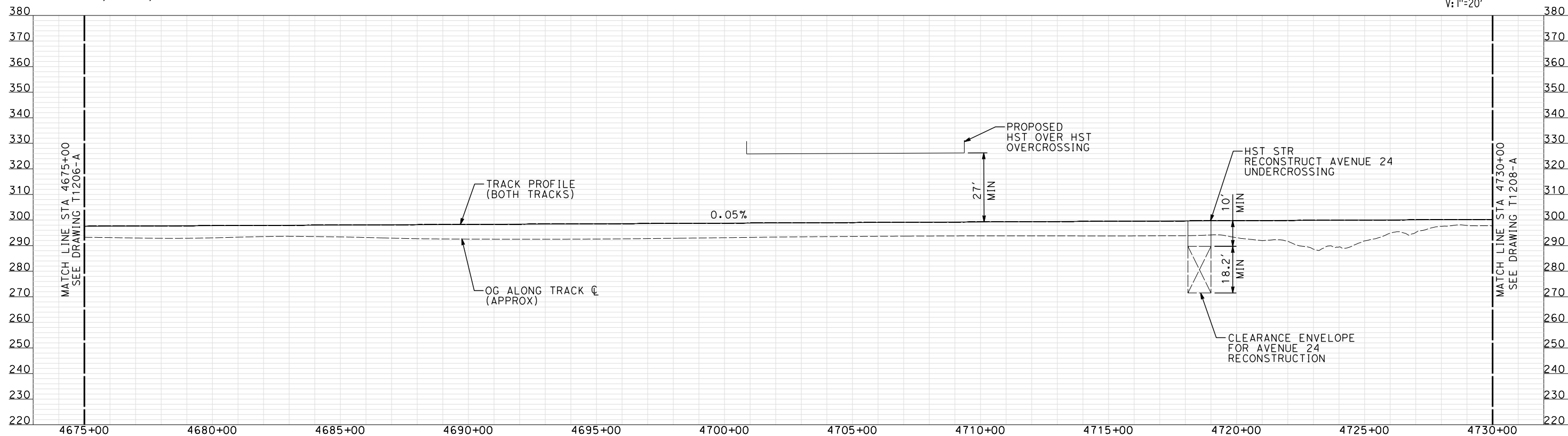
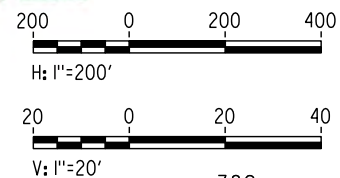
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DRAWING NO. T1206-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

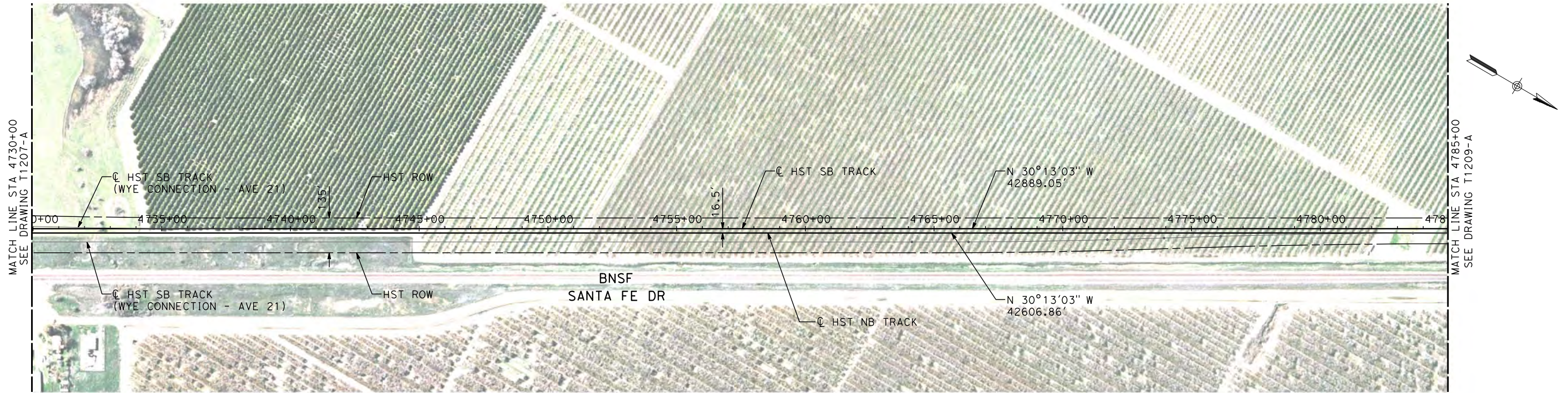
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



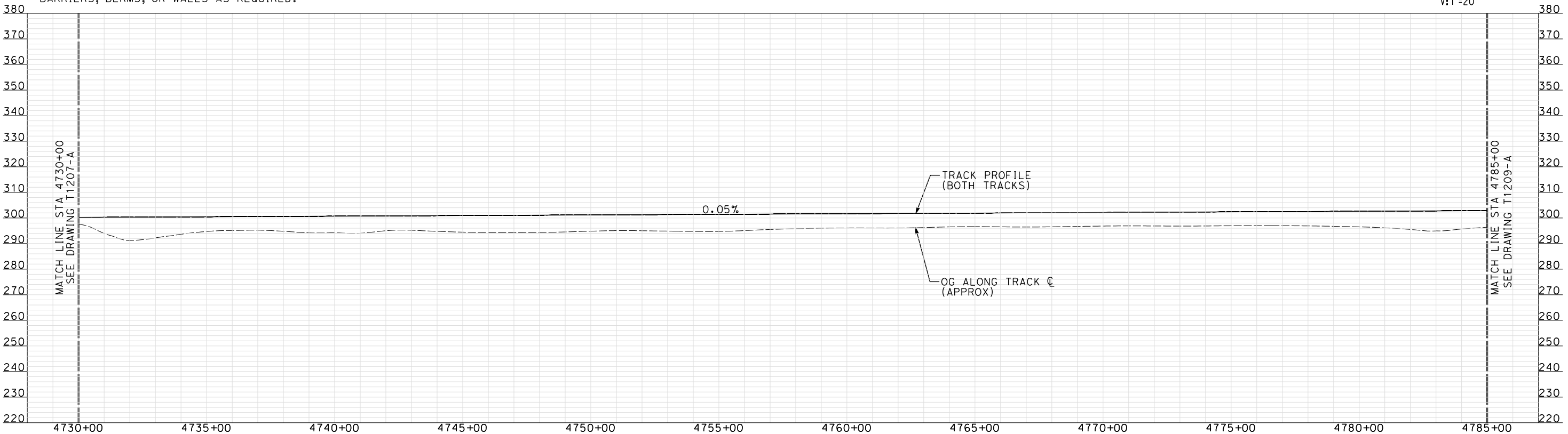
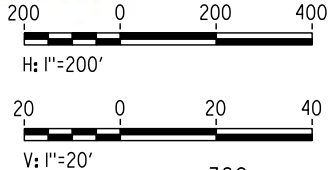
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4675+00 TO STA 4730+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1207-A
SCALE
AS SHOWN
SHEET NO.
OF


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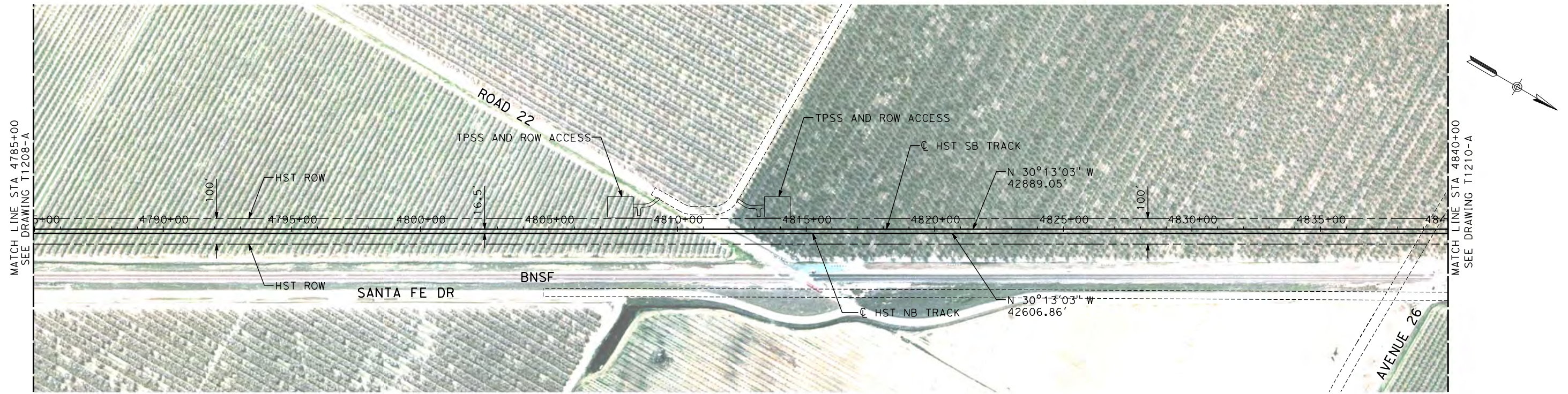
- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

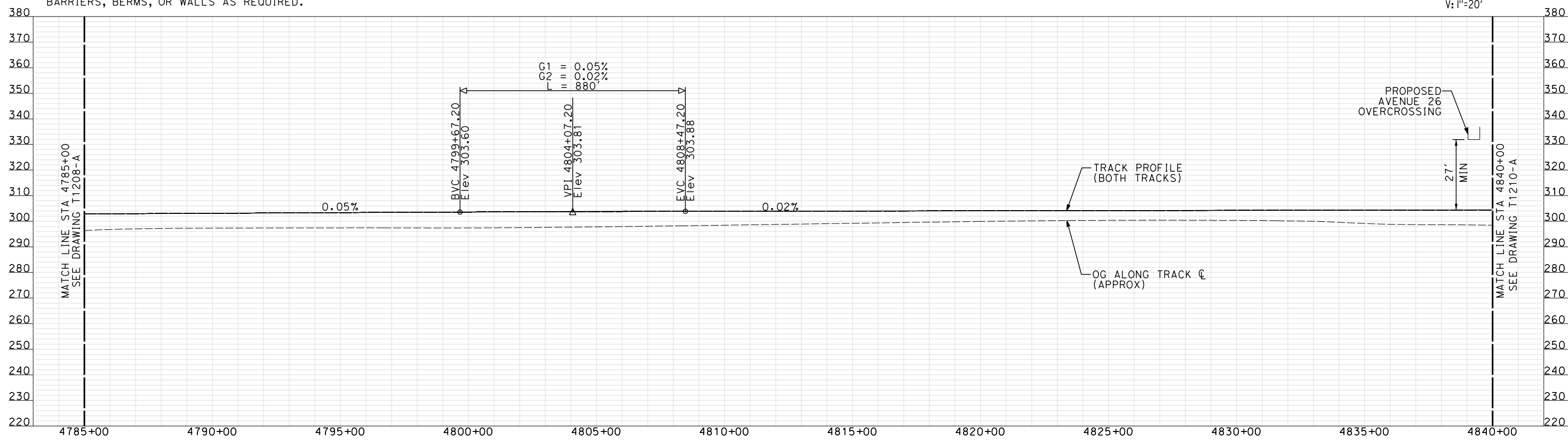
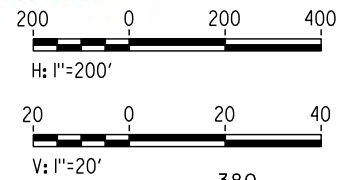
						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL	<div>AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div> <div>CH2MHILL</div>	<div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MERCED CONNECTION AVE 21 / AVE 24 PLAN AND PROFILE STA 4730+00 TO STA 4785+00	CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN	DRAWING NO. T1208-A					
					CHECKED BY A. BOONE	SCALE AS SHOWN					
					IN CHARGE A. BOONE	SHEET NO. ### OF ###					
1	12/12/2011	AS			DATE 07/27/2011						
REV	DATE	BY	CHK	APP	DESCRIPTION						

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

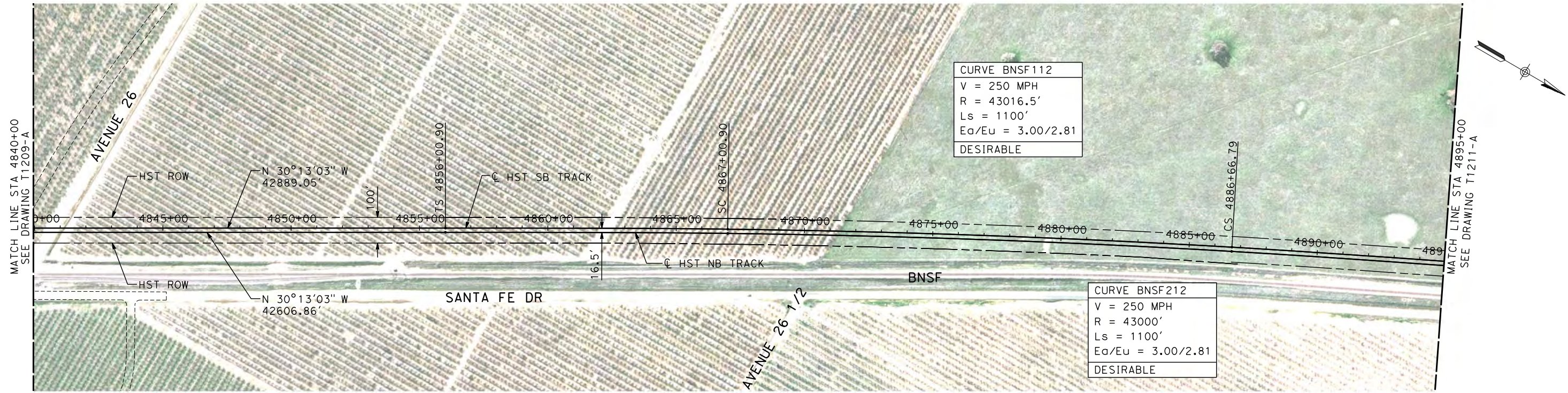


PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

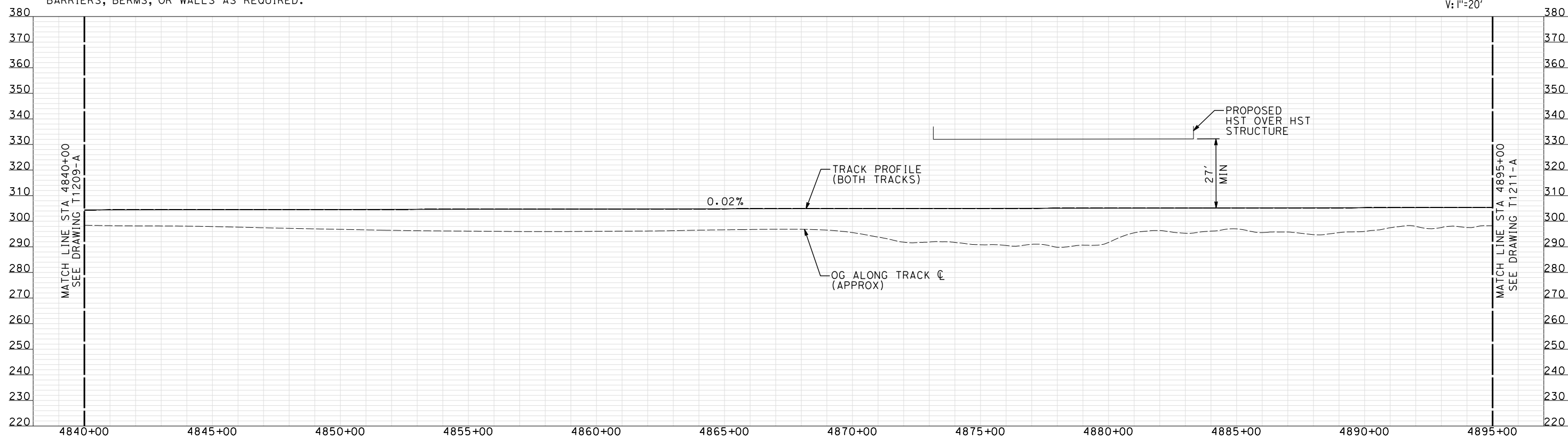
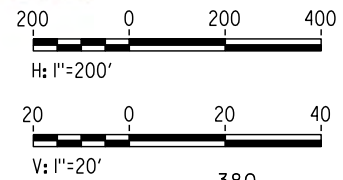
					DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	<div>AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div> <div>CH2MHILL</div>	<div></div> <div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MERCED CONNECTION AVE 21 / AVE 24 PLAN AND PROFILE STA 4785+00 TO STA 4840+00		CONTRACT NO. HSR06-007
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					IN CHARGE A. BOONE						SHEET NO. ### OF ###
1	12/12/2011	AS			DATE 07/27/2011						
REV	DATE	BY	CHK	APP	DESCRIPTION						

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- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

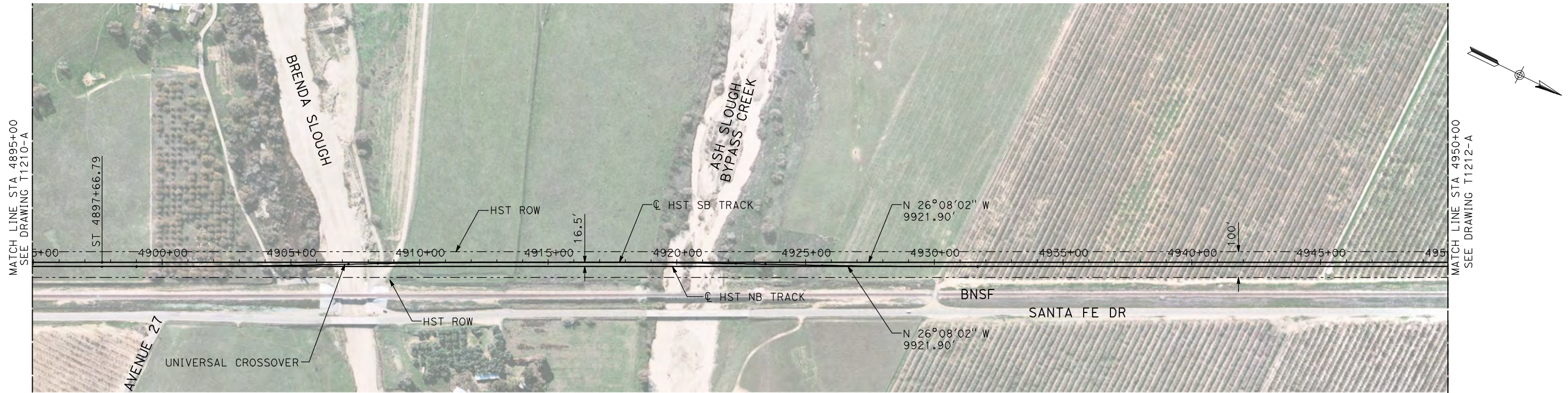
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4840+00 TO STA 4895+00

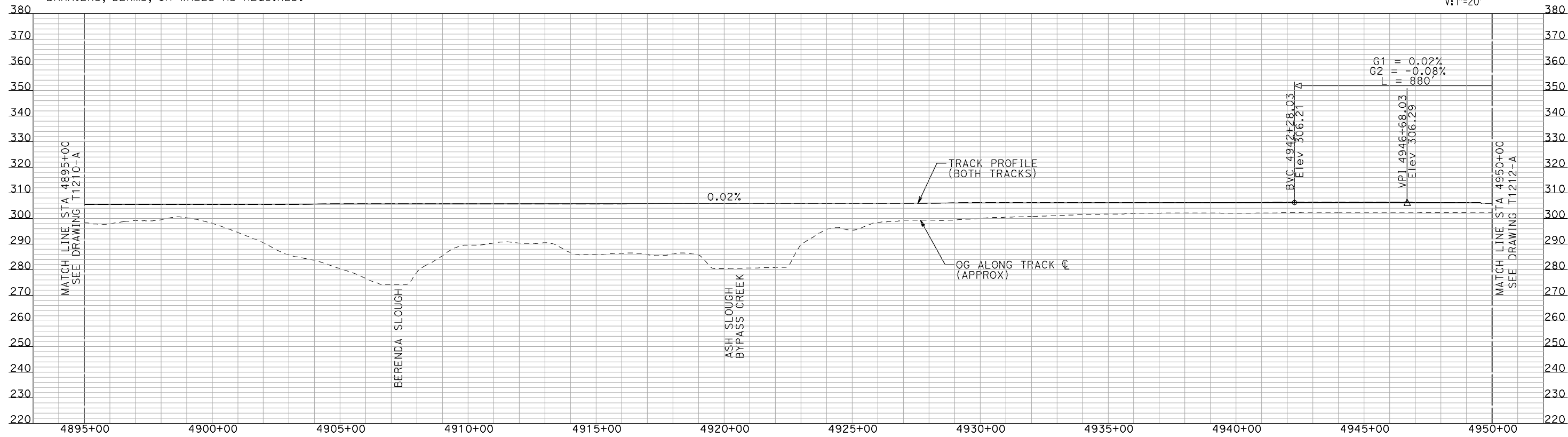
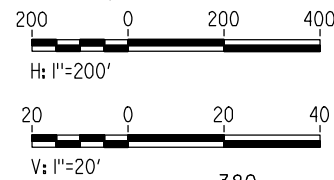
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OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4895+00 TO STA 4950+00

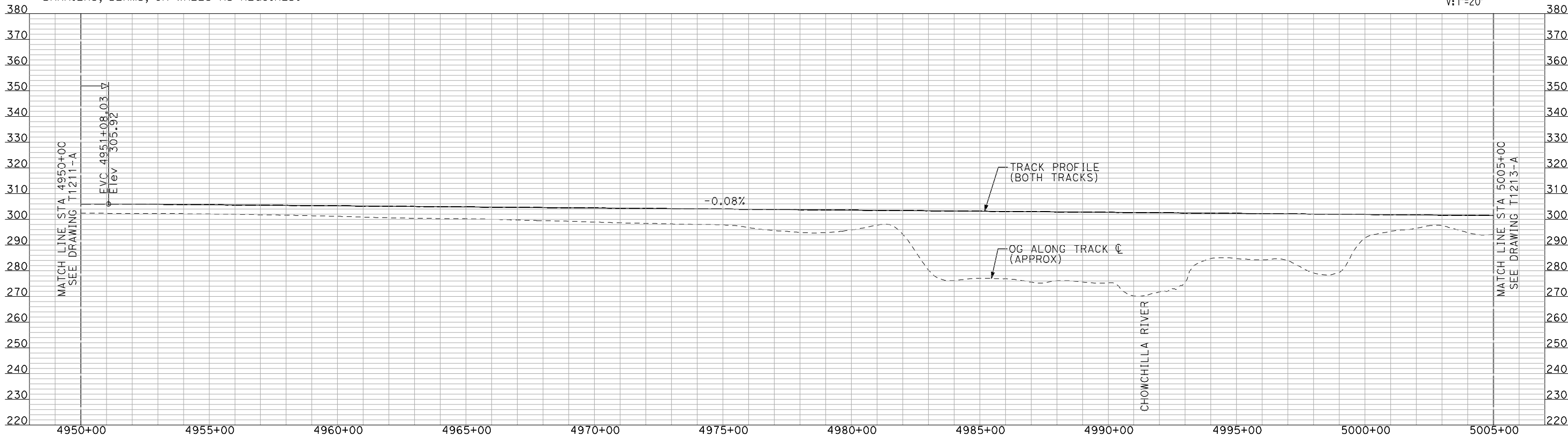
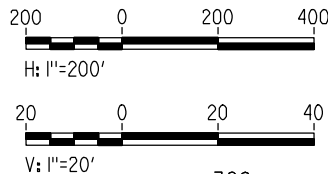
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DRAWING NO.
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AS SHOWN
SHEET NO.
OF

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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

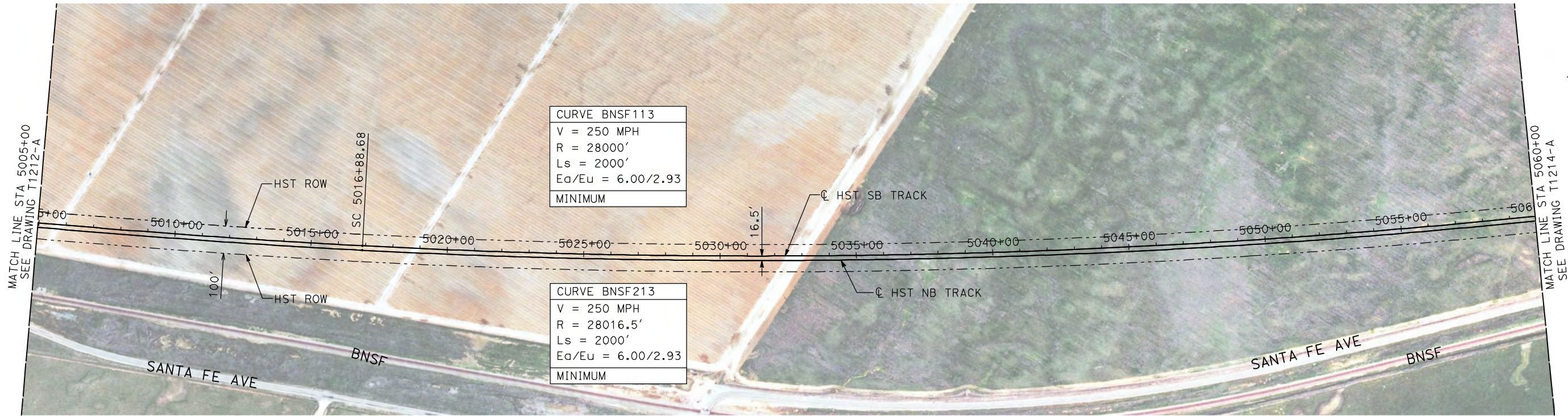


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4950+00 TO STA 5005+00

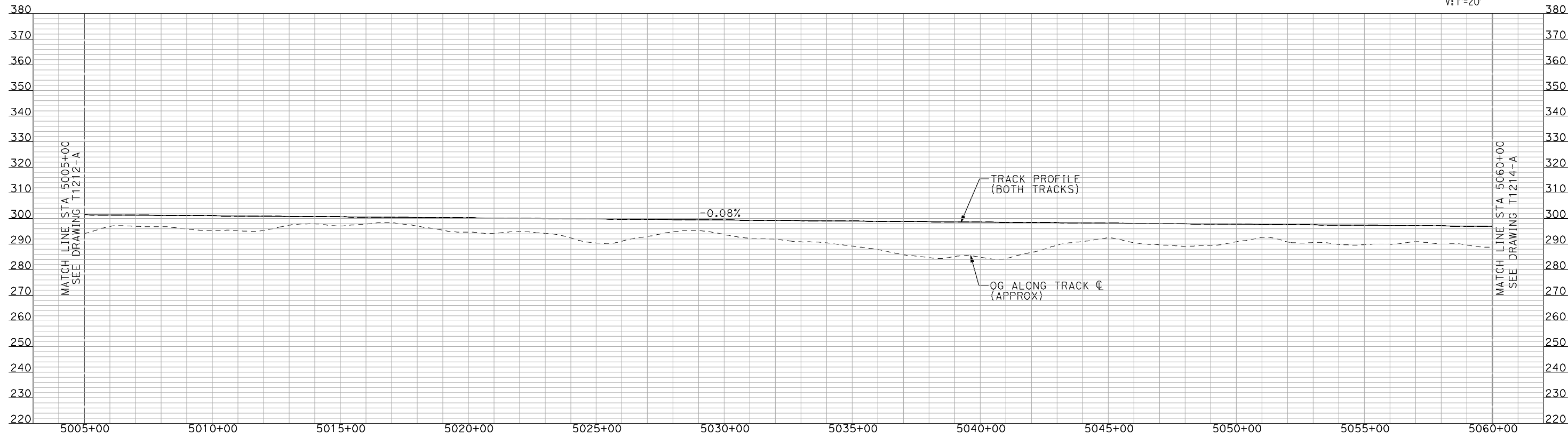
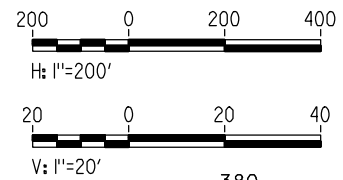
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SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



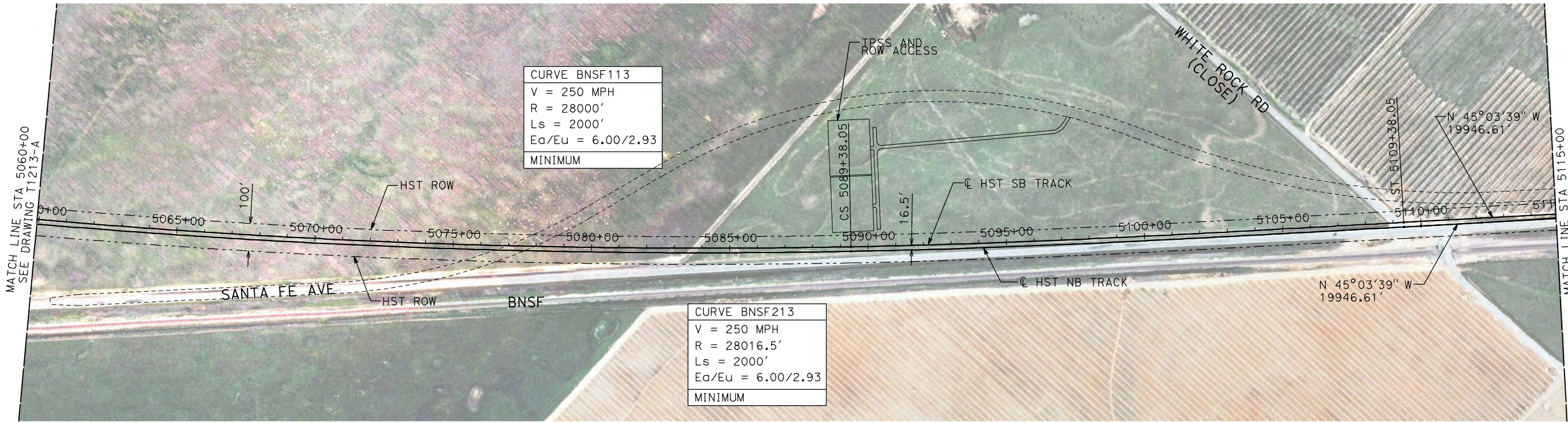
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5005+00 TO STA 5060+00

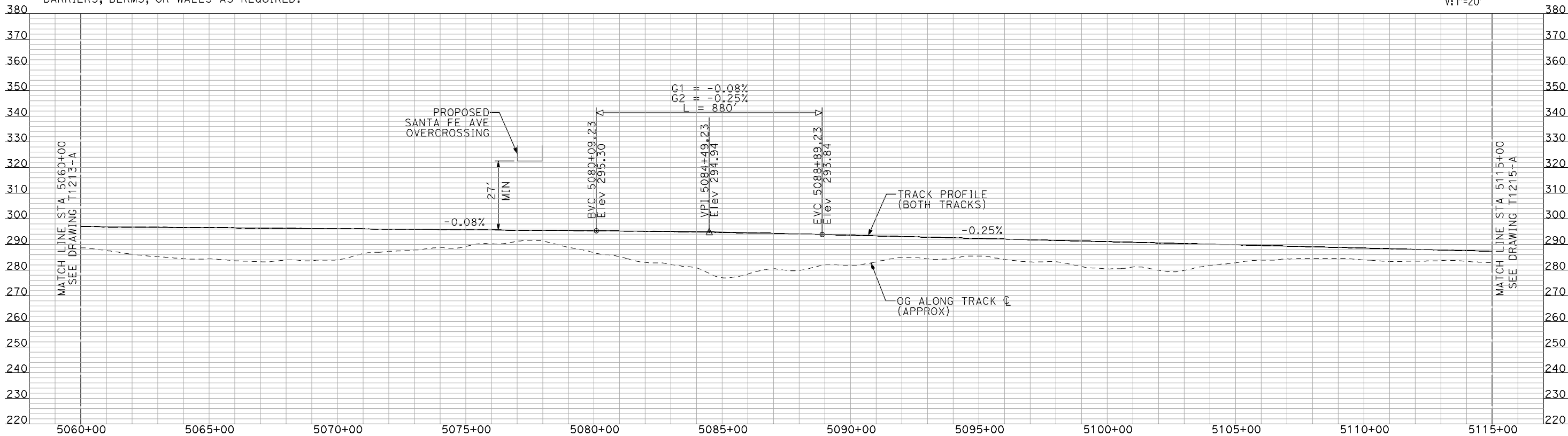
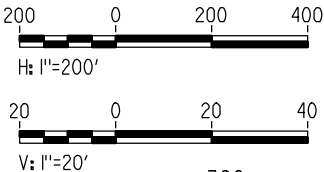
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



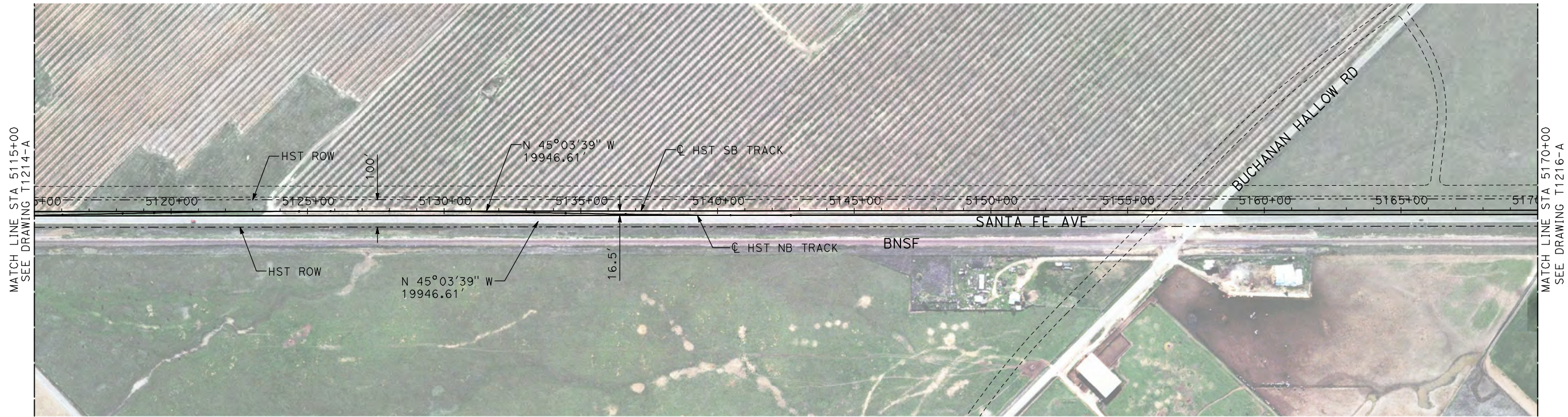
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5060+00 TO STA 5115+00

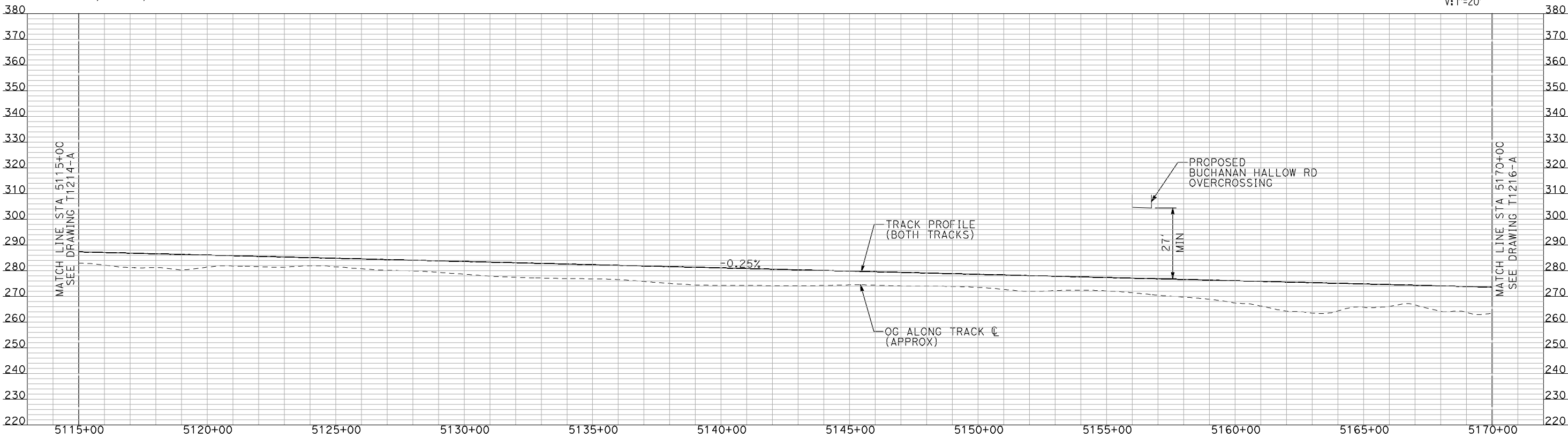
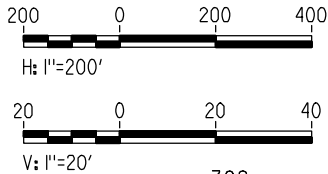
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

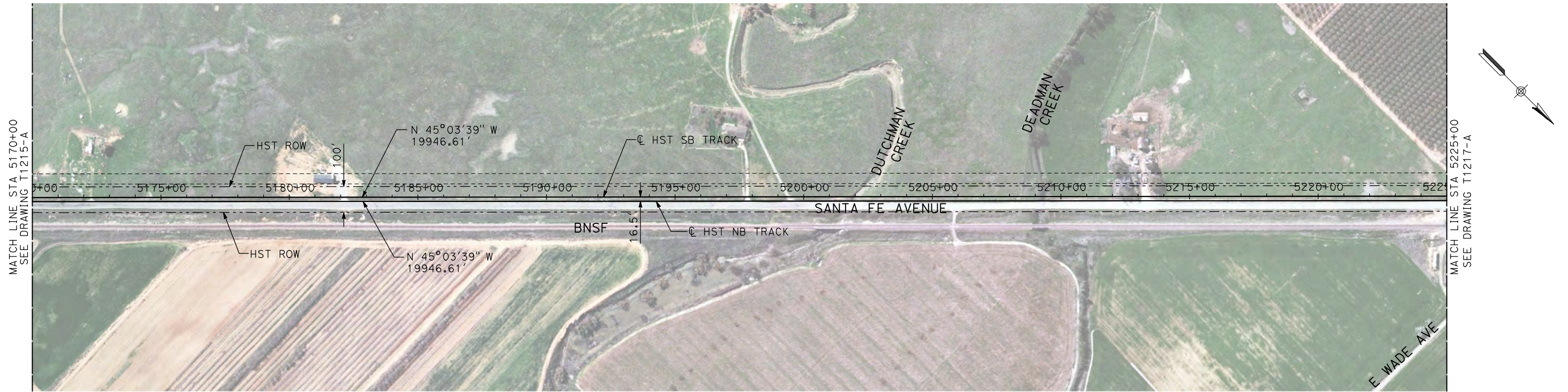
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5115+00 TO STA 5170+00

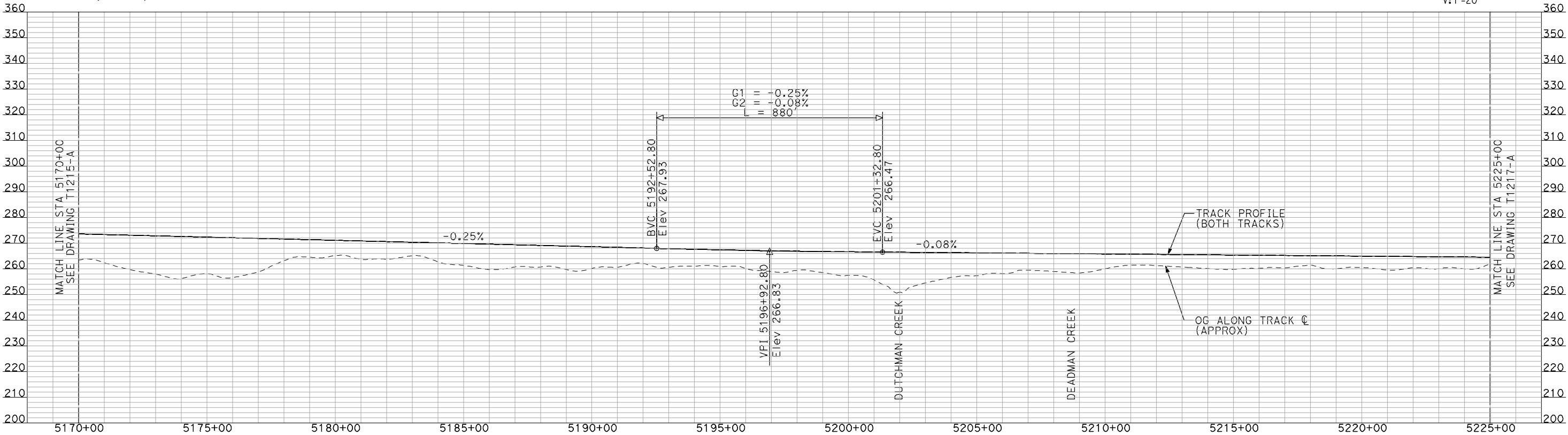
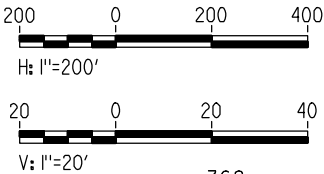
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HSR06-007
DRAWING NO.
T1215-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



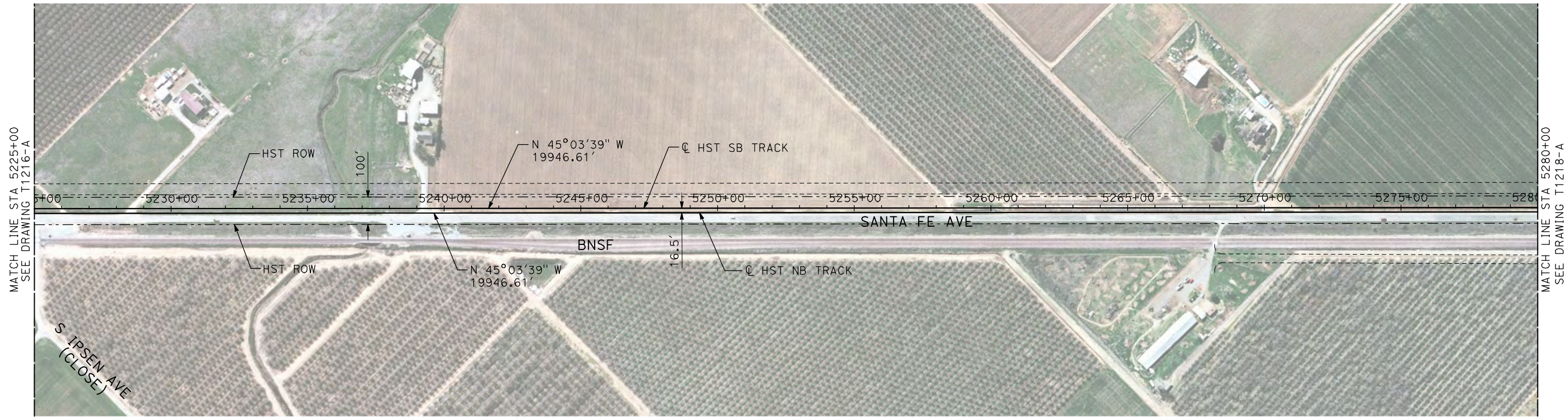
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5170+00 TO STA 5225+00

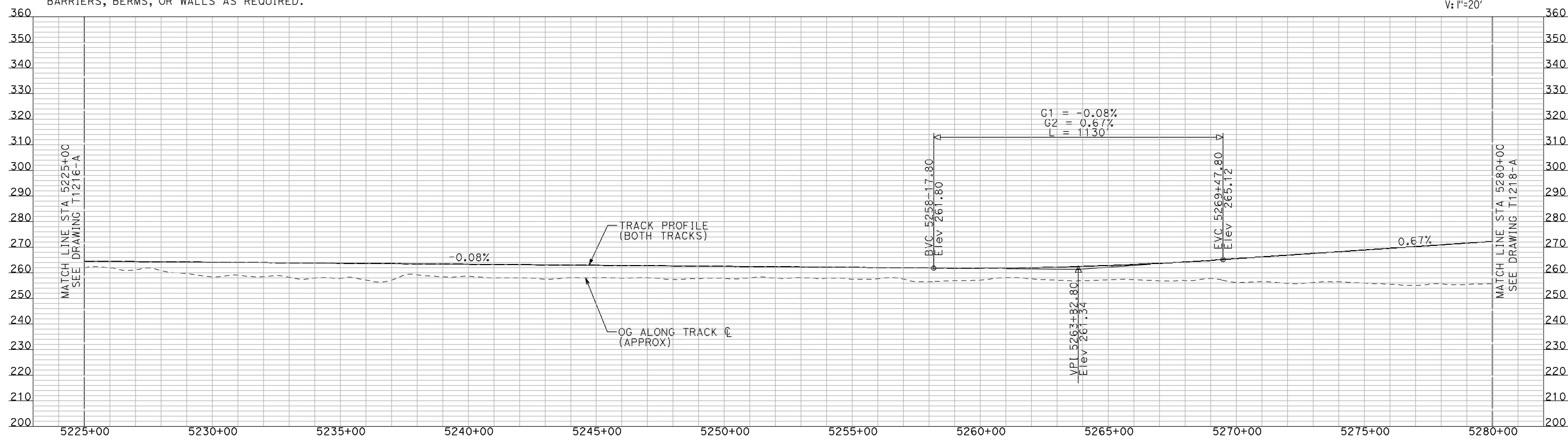
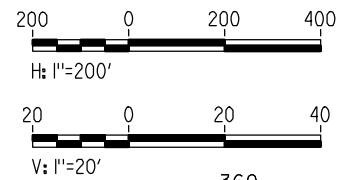
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

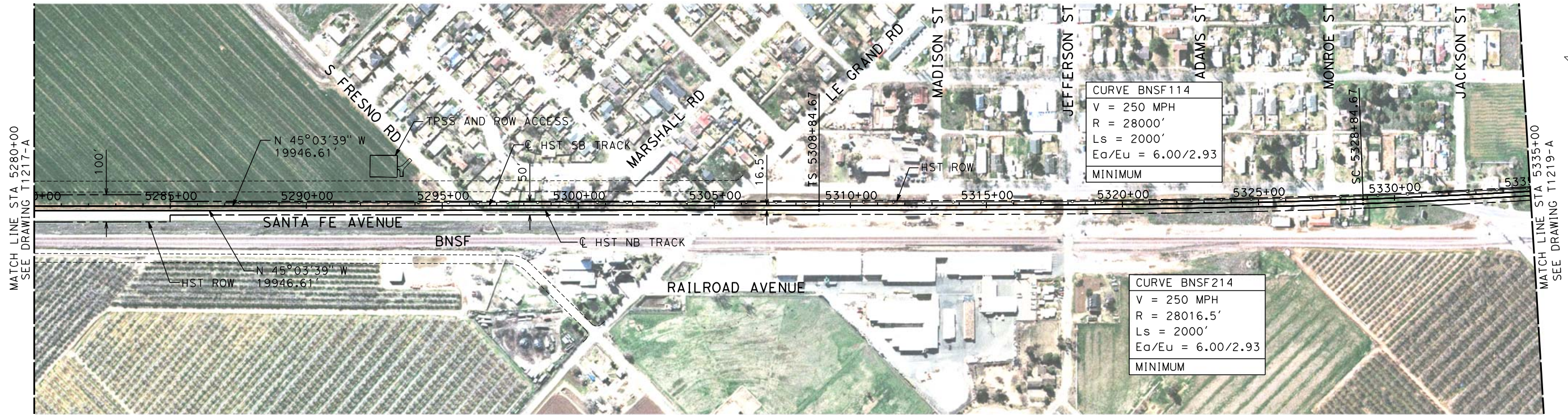
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5225+00 TO STA 5280+00

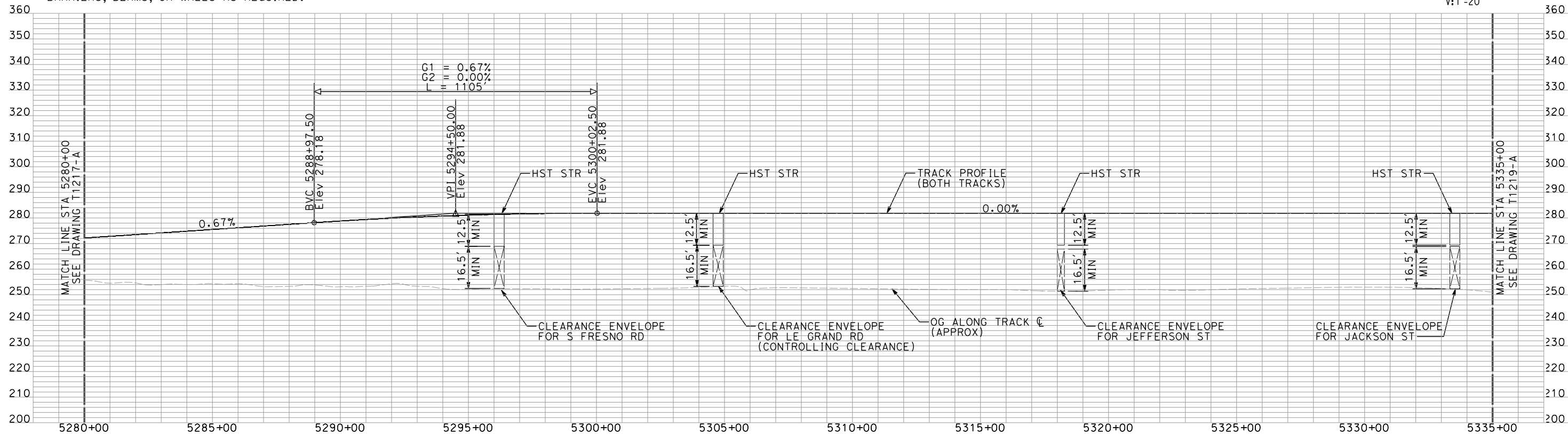
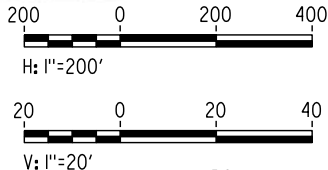
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DRAWING NO.
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AS SHOWN
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/17/12				NOISE BARRIER LIMITS

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5280+00 TO STA 5335+00

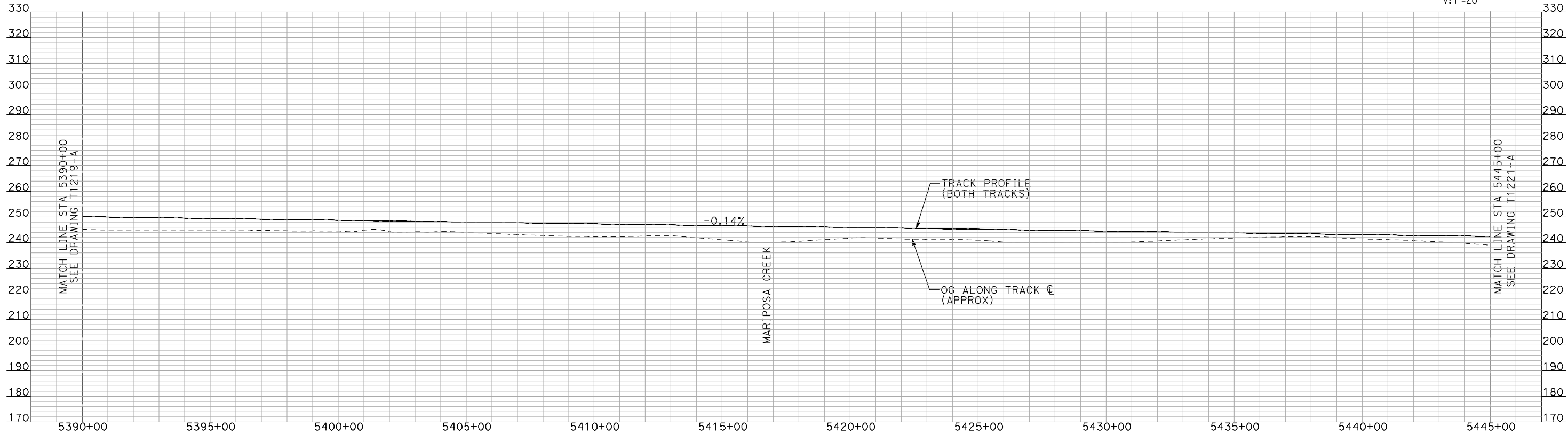
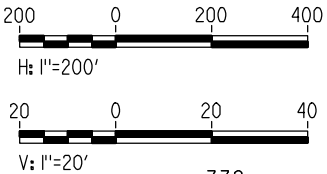
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HSR06-007
DRAWING NO.
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SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



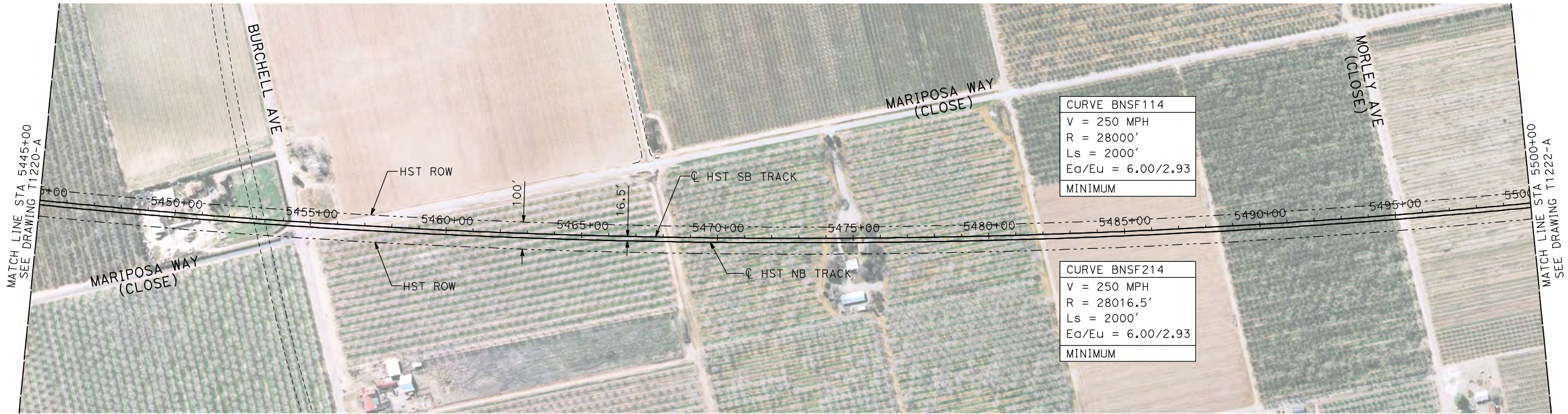
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5390+00 TO STA 5445+00

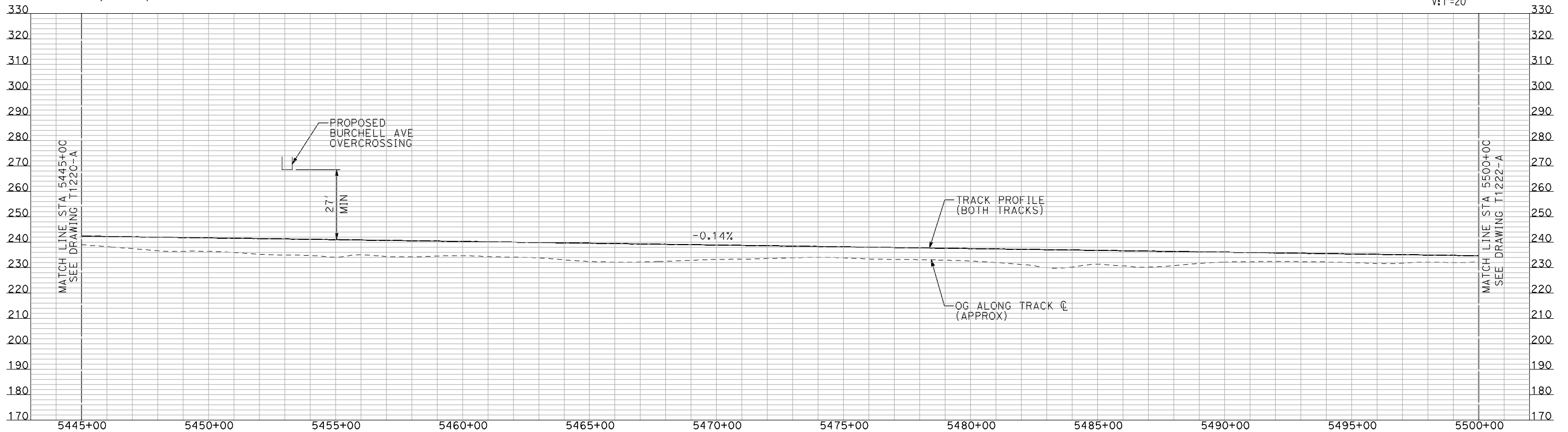
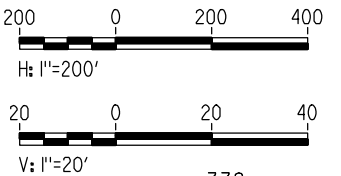
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

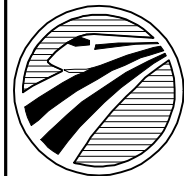
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



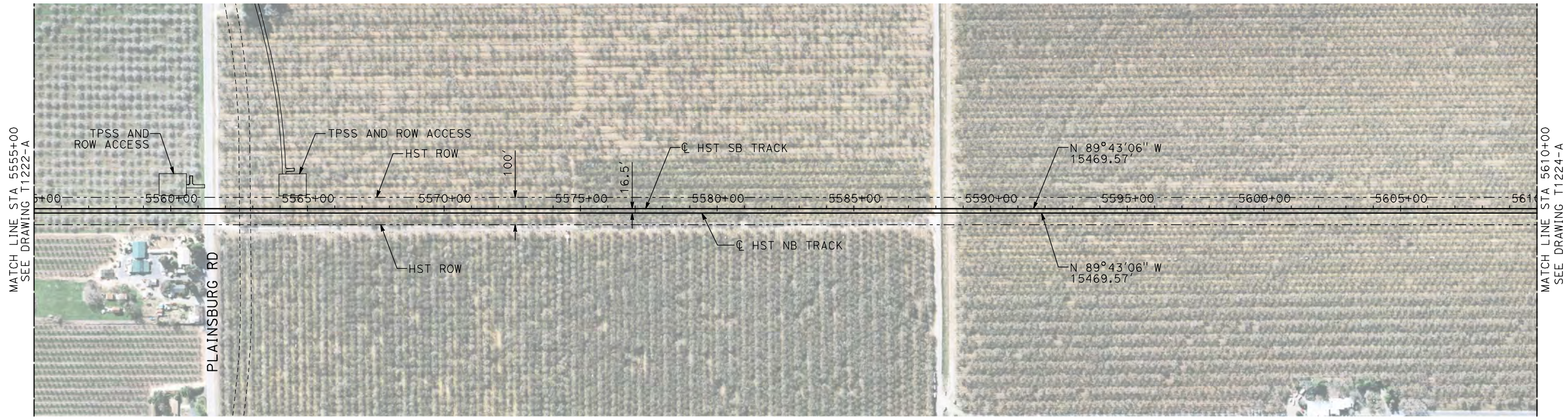
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5445+00 TO STA 5500+00

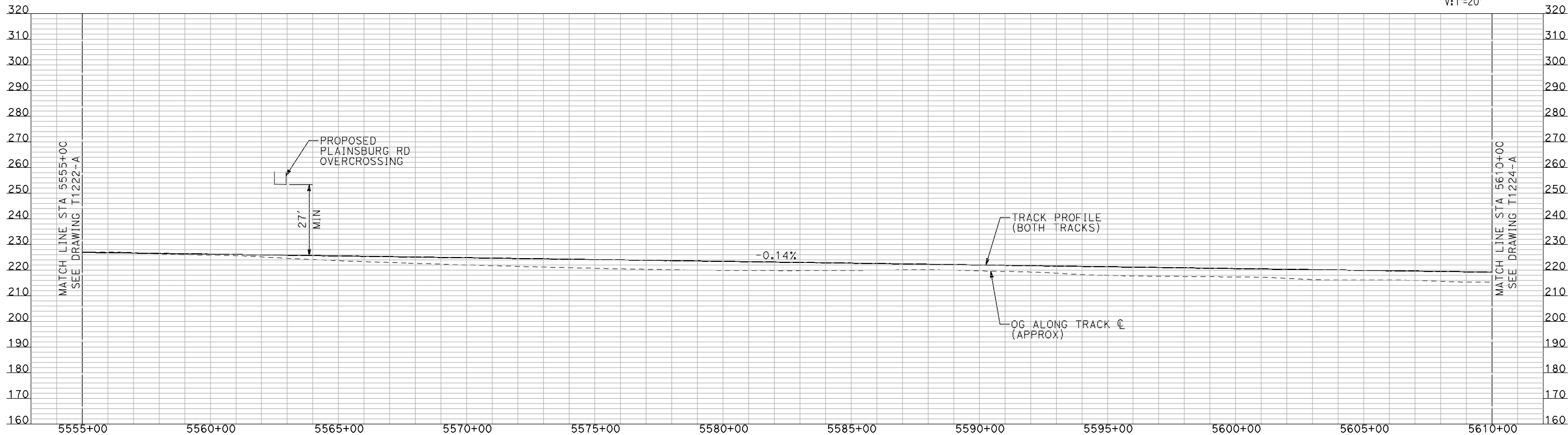
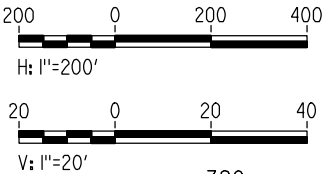
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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



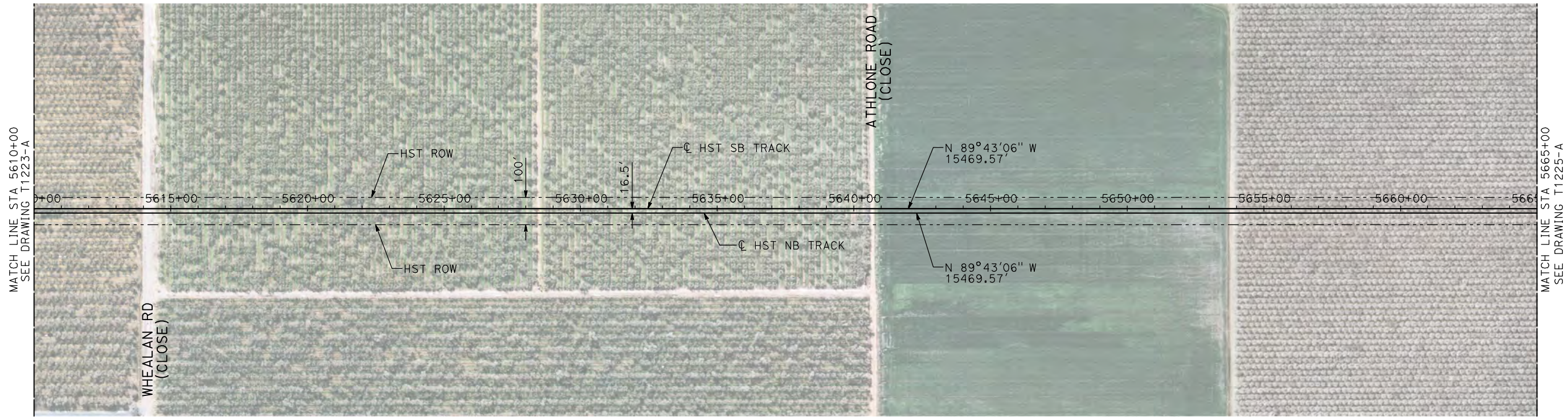
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5555+00 TO STA 5610+00

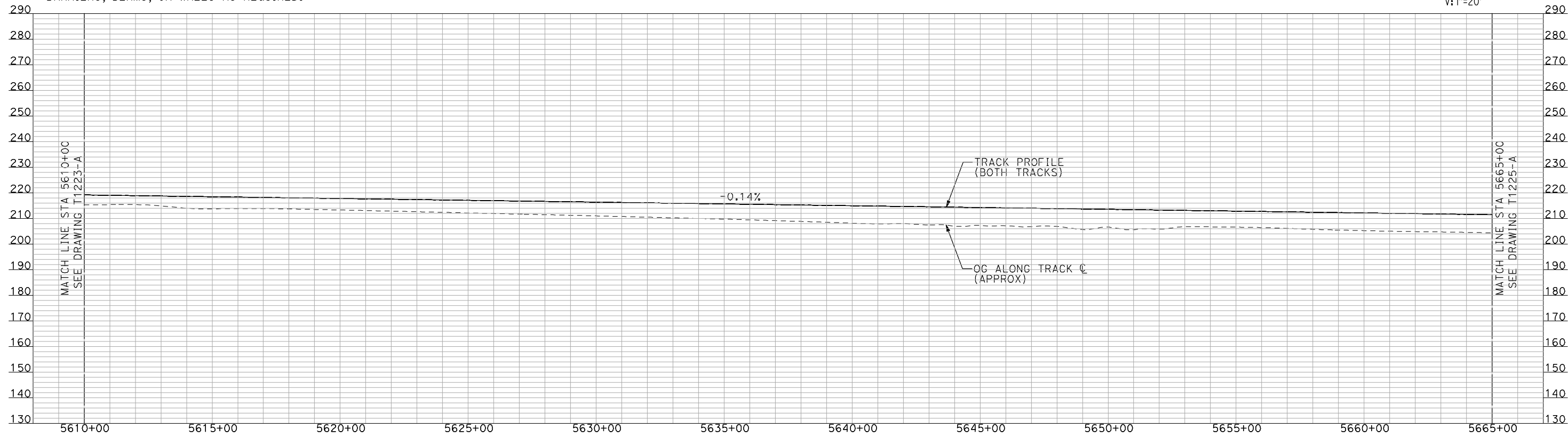
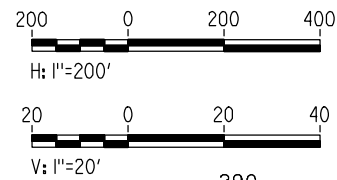
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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



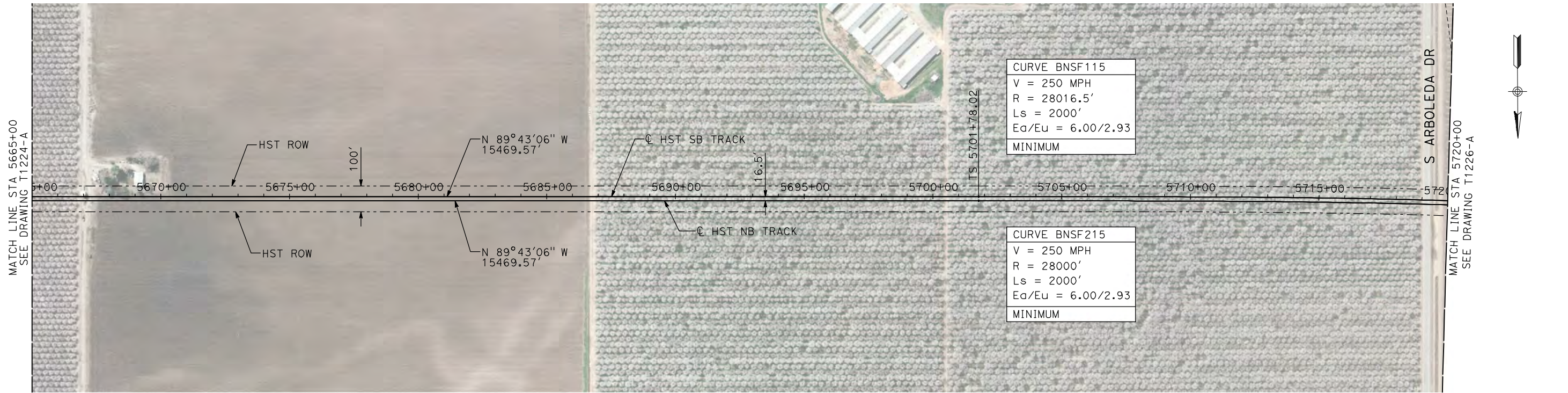
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5610+00 TO STA 5665+00

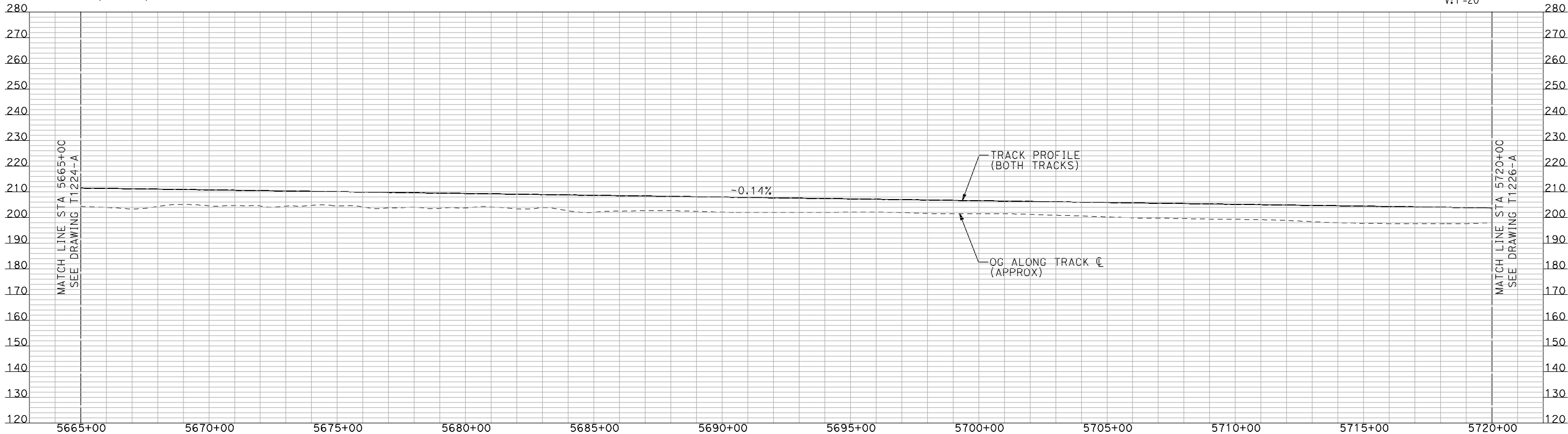
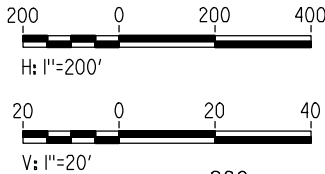
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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

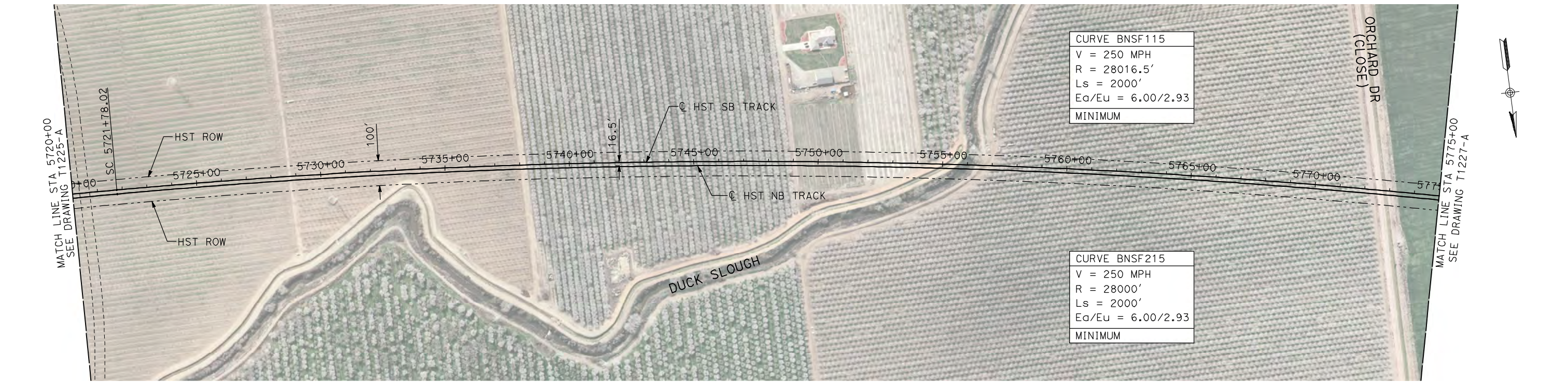
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5665+00 TO STA 5720+00

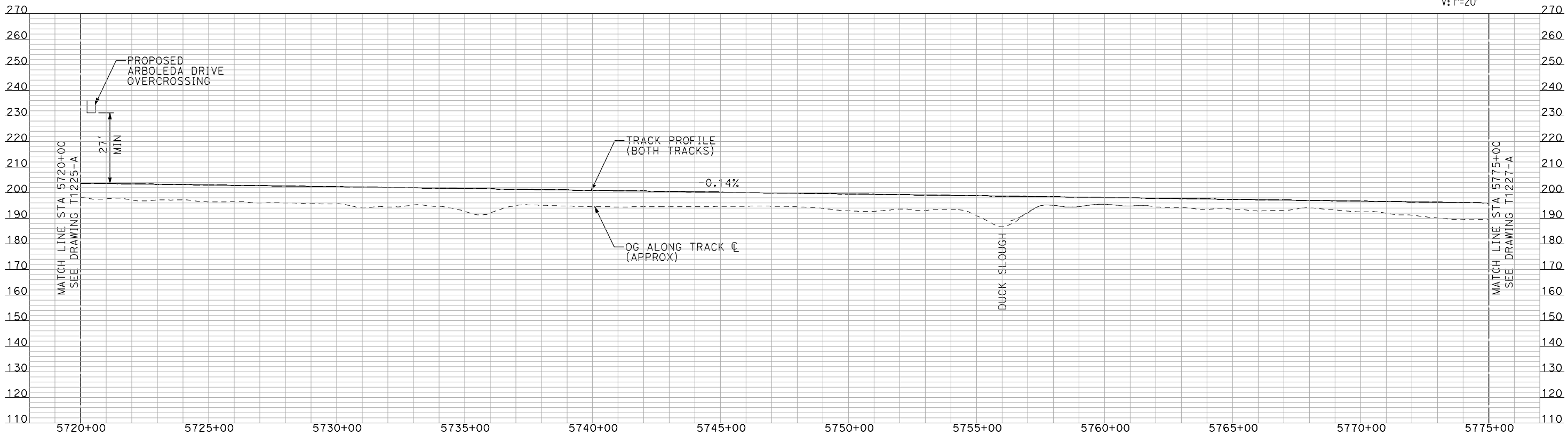
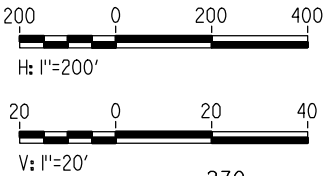
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SCALE AS SHOWN
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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



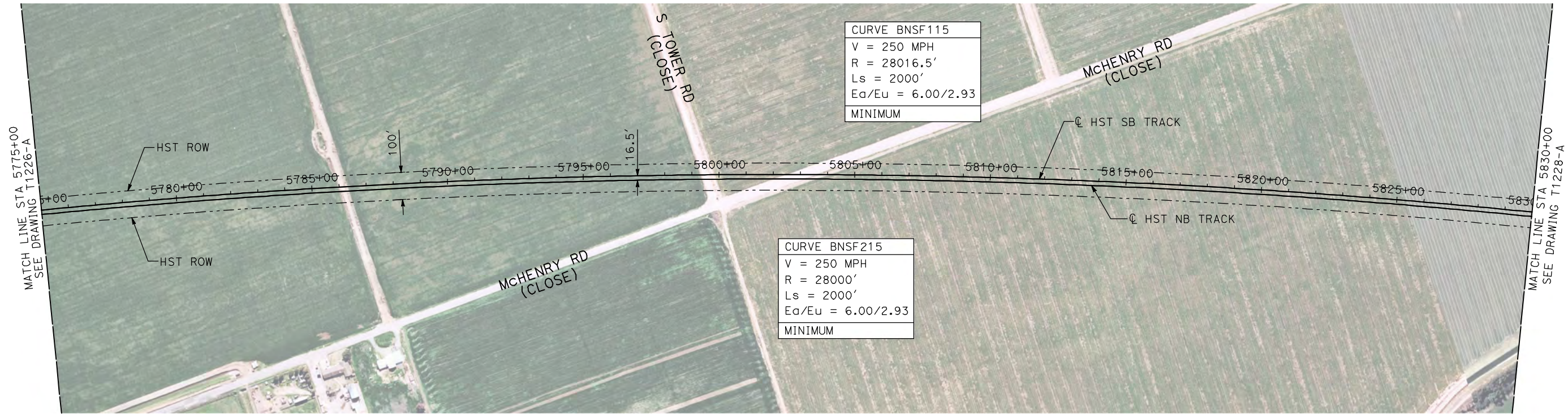
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5720+00 TO STA 5775+00

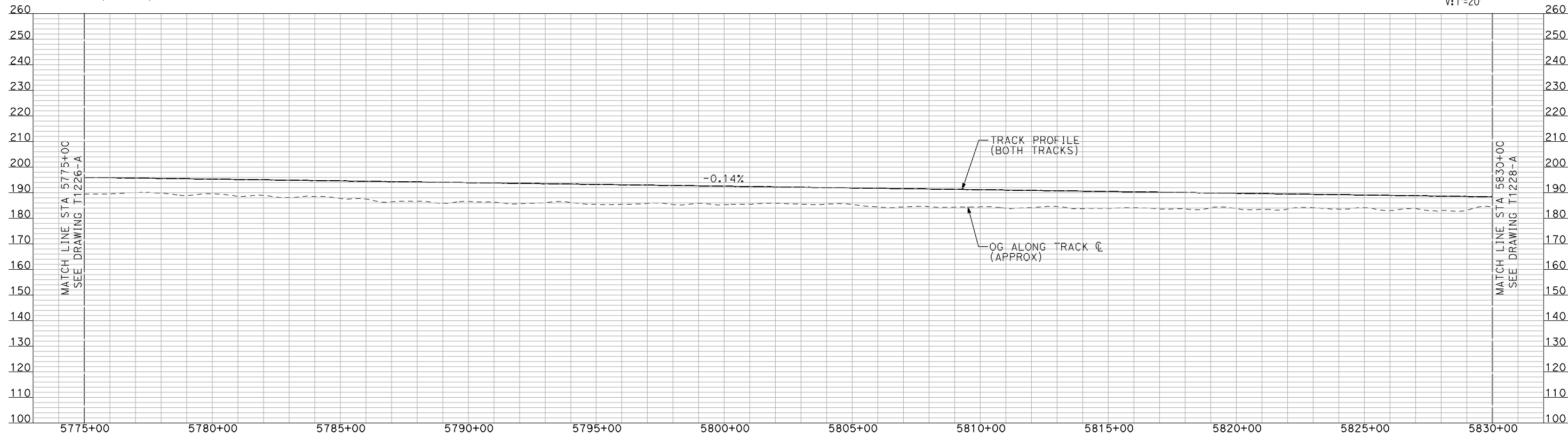
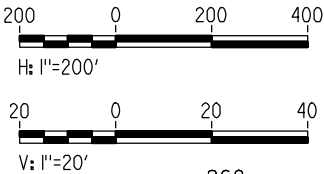
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DRAWING NO. T1226-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

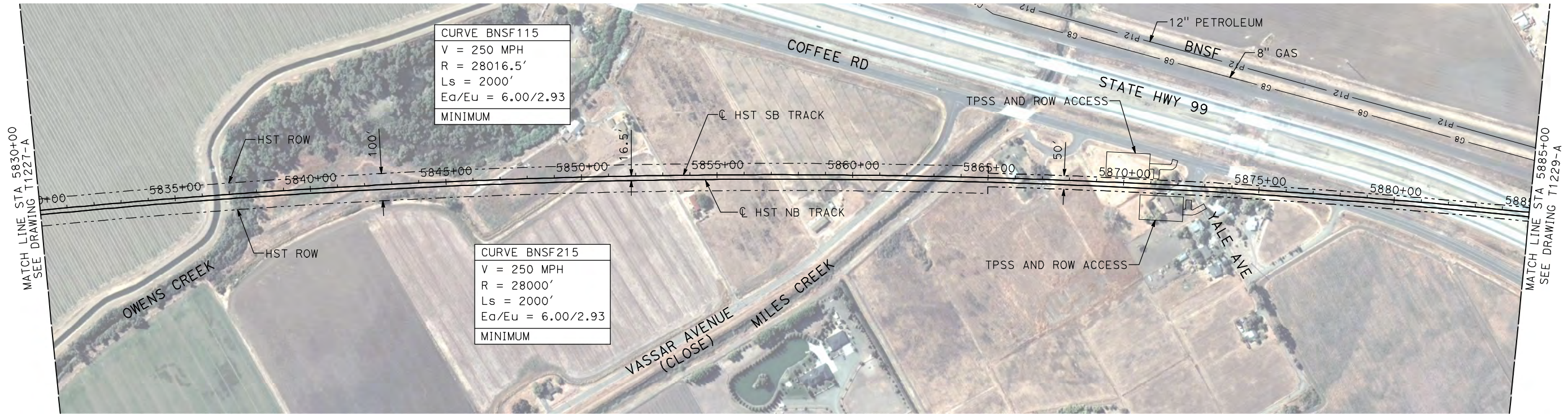


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5775+00 TO STA 5830+00

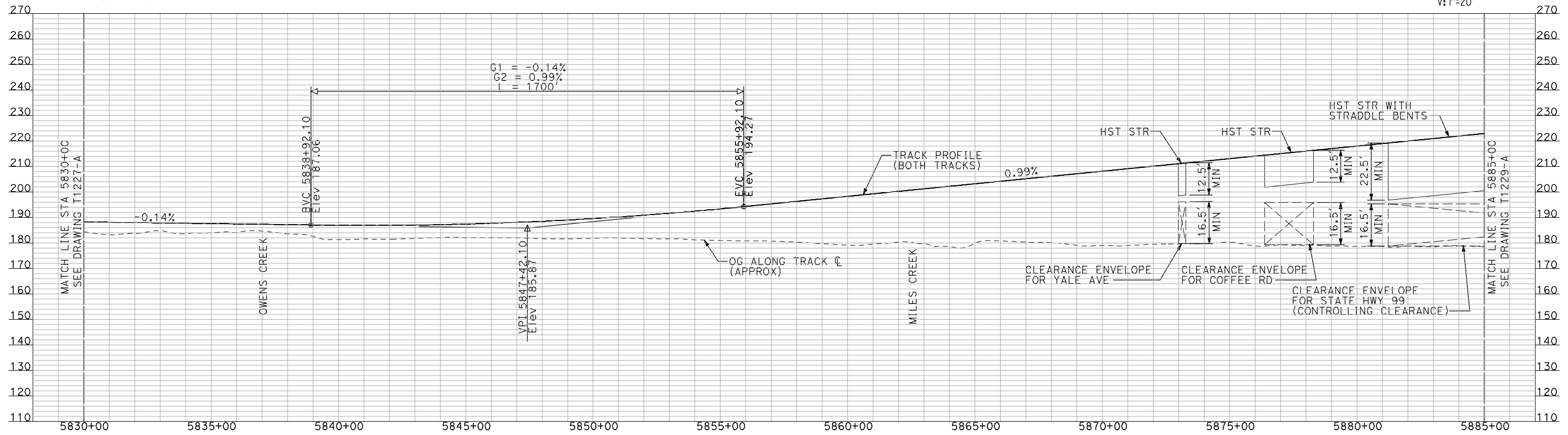
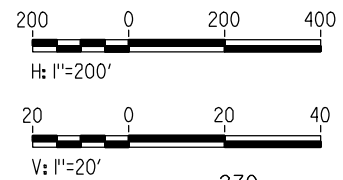
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5830+00 TO STA 5885+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1228-A
SCALE
AS SHOWN
SHEET NO.
OF



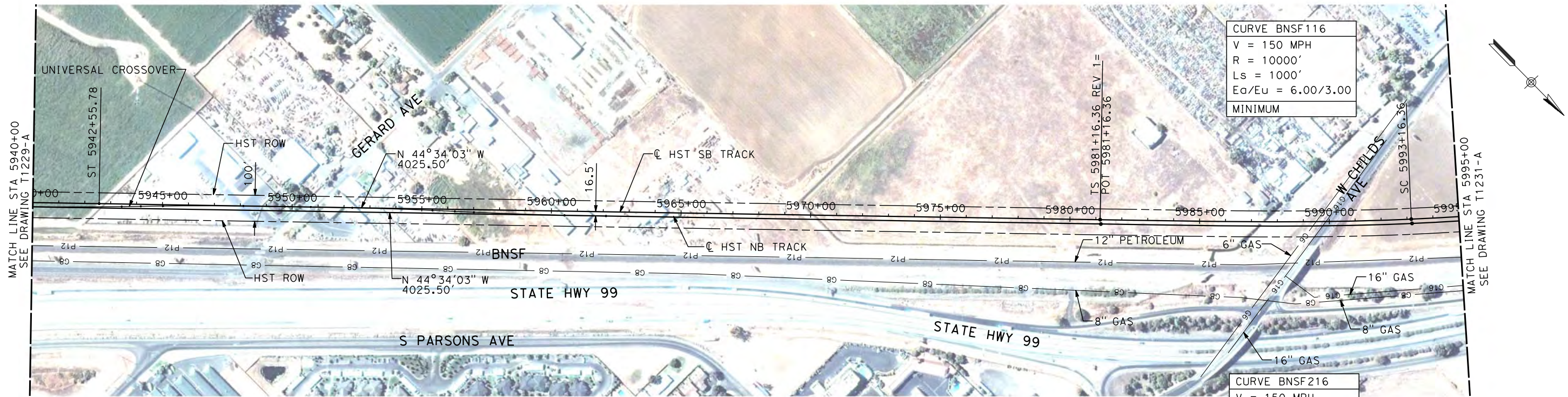
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

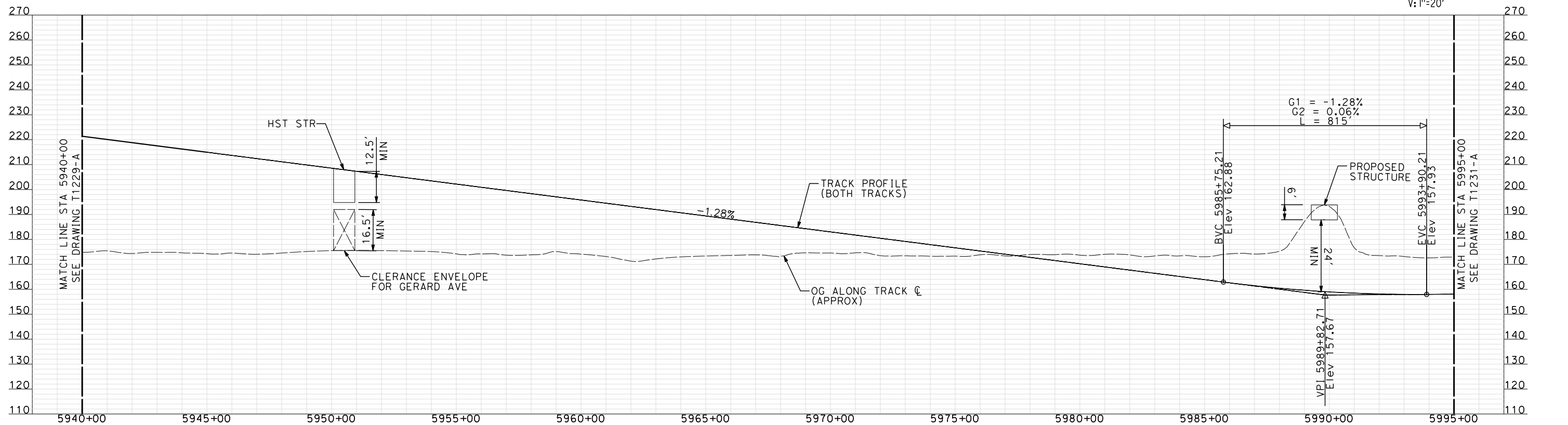
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SCALE	AS SHOWN
SHEET NO.	### OF ###

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shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

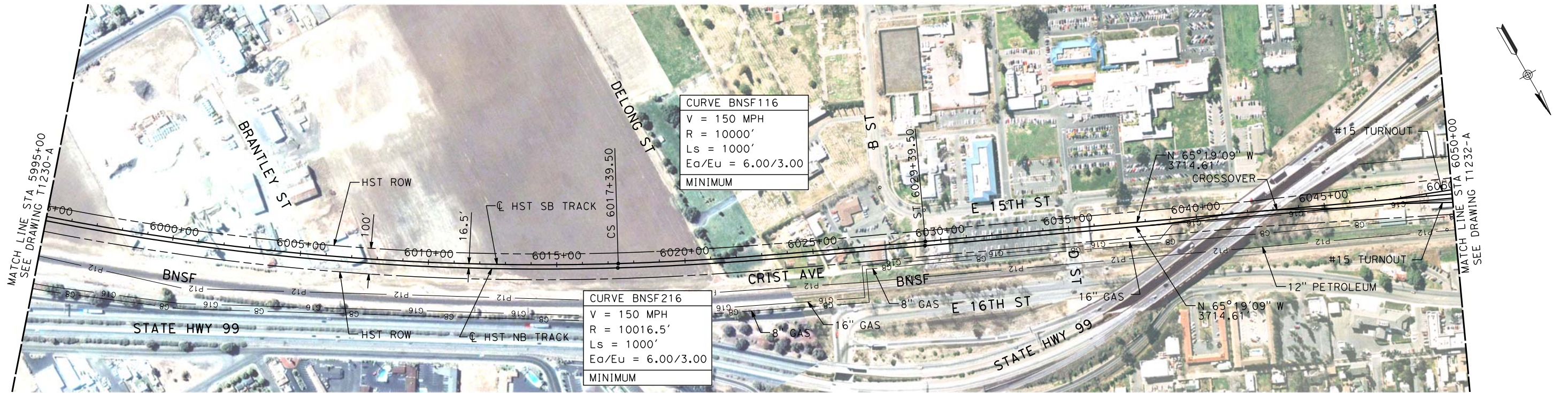
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5940+00 TO STA 5995+00

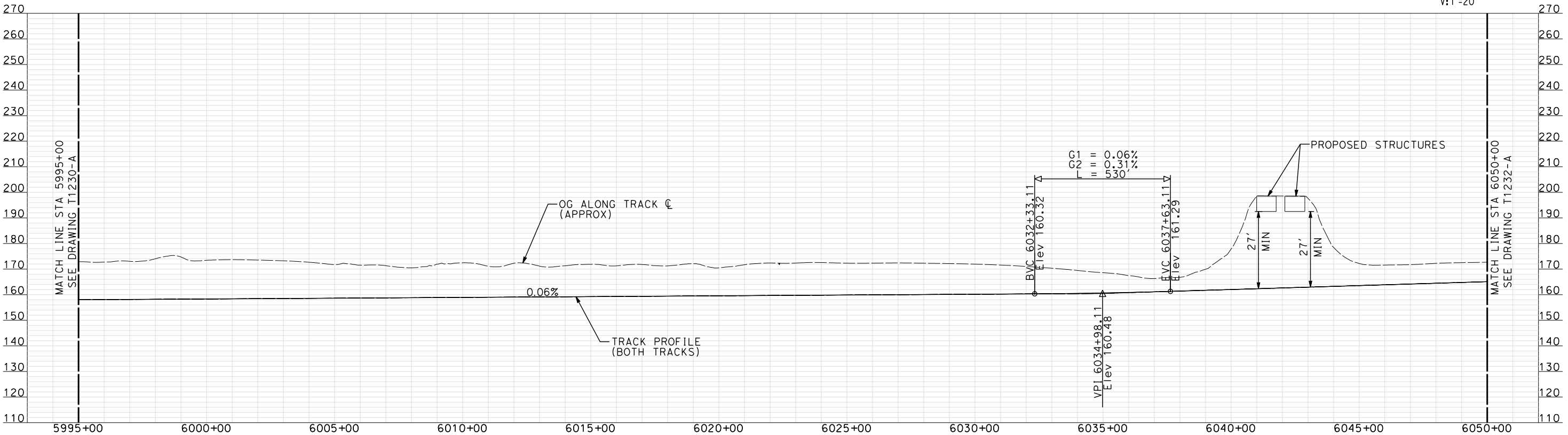
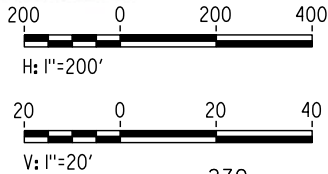
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SCALE AS SHOWN
SHEET NO. ### OF ###

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shieldsa



PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

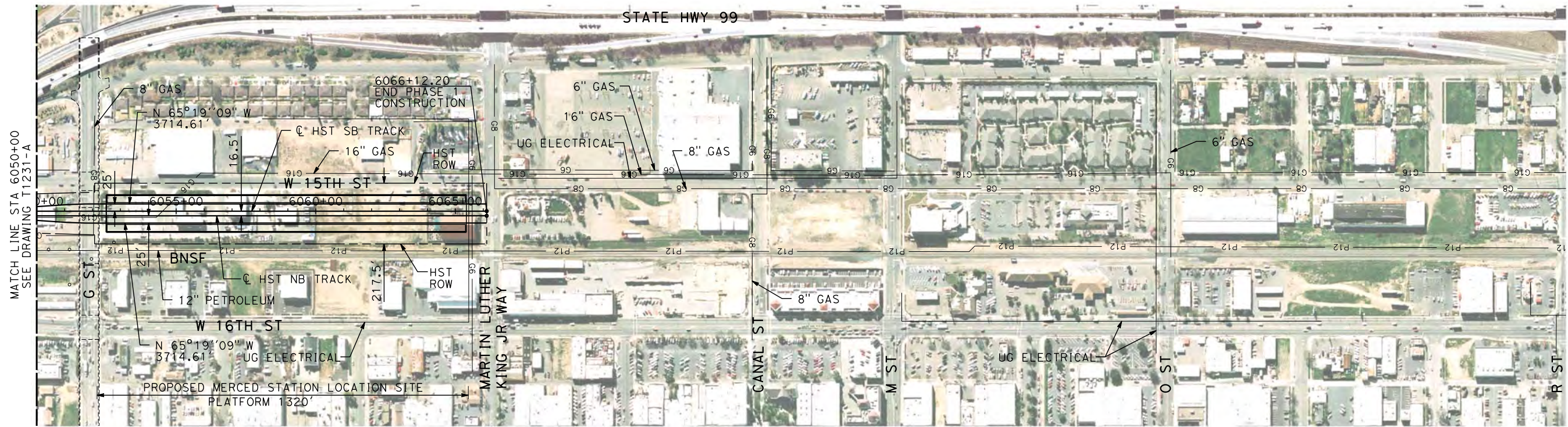
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5995+00 TO STA 6050+00

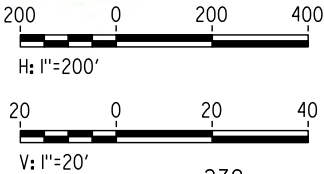
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shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/01/2012	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



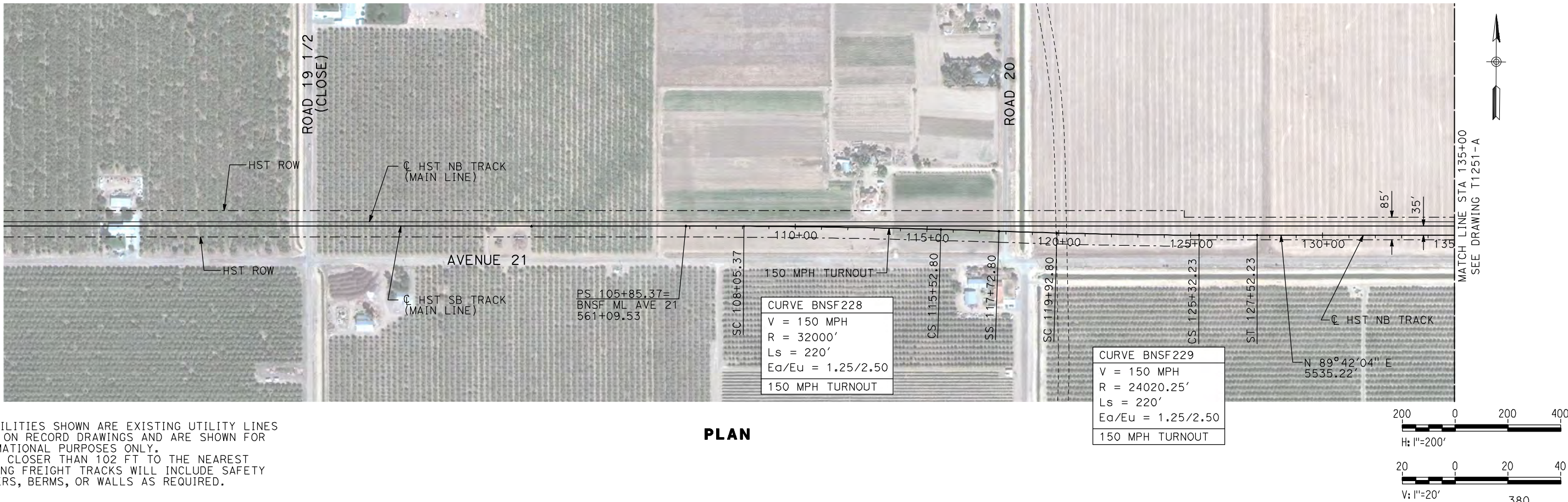
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

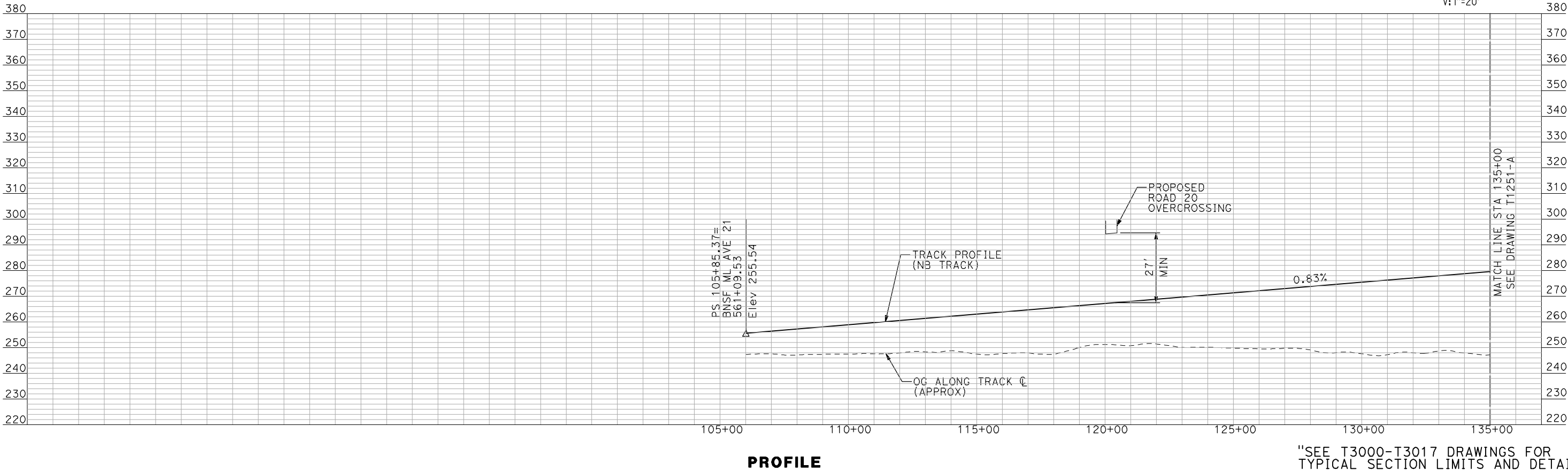
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AVE 21 / AVE 24
PLAN AND PROFILE
STA 6050+00 TO STA 6066+12.20

CONTRACT NO. HSR06-007
DRAWING NO. T1232-A
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SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

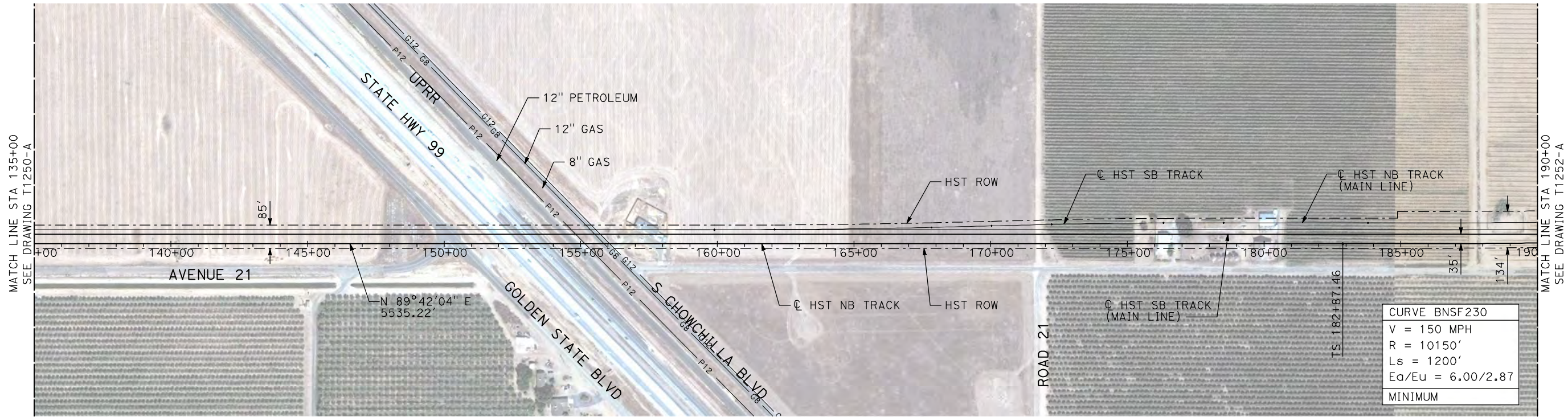


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - NB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 105+85.37 TO STA 135+00

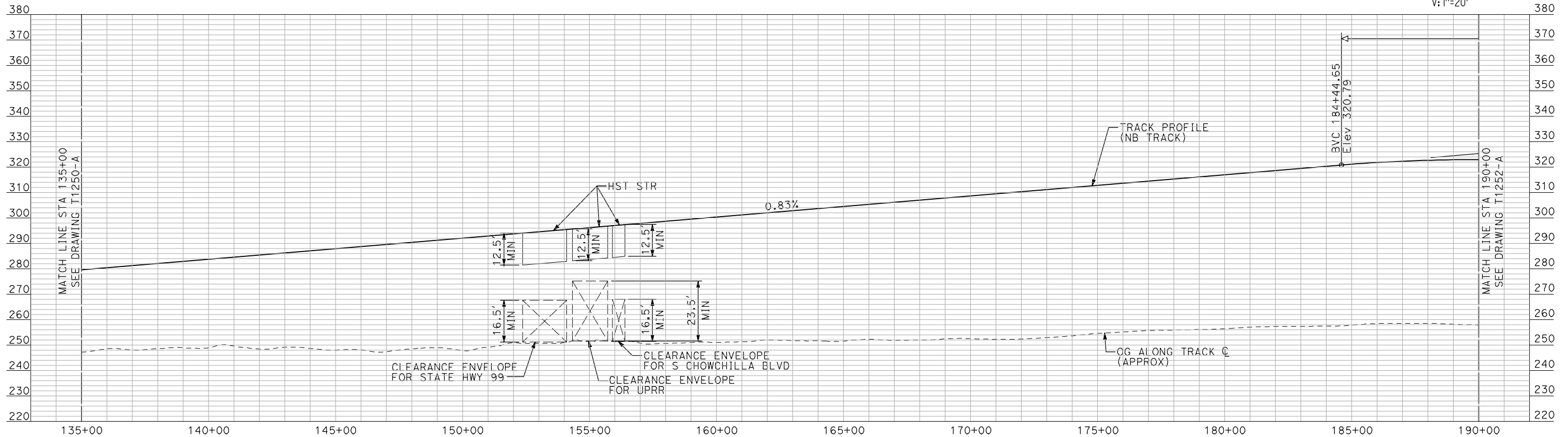
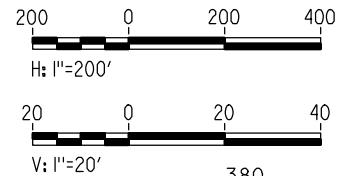
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SCALE AS SHOWN
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Sacramento, CA 95811

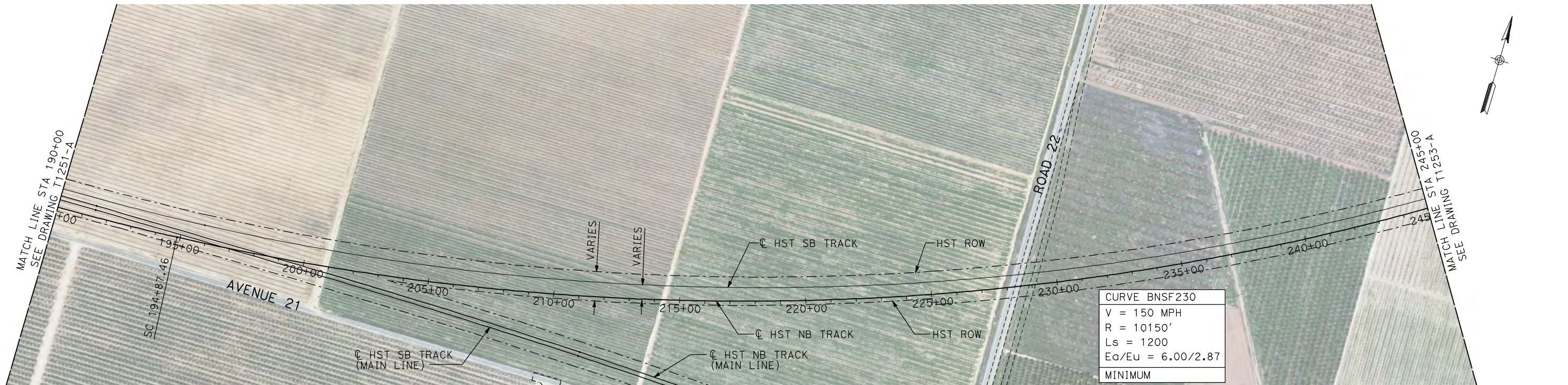
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - NB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 135+00 TO STA 190+00

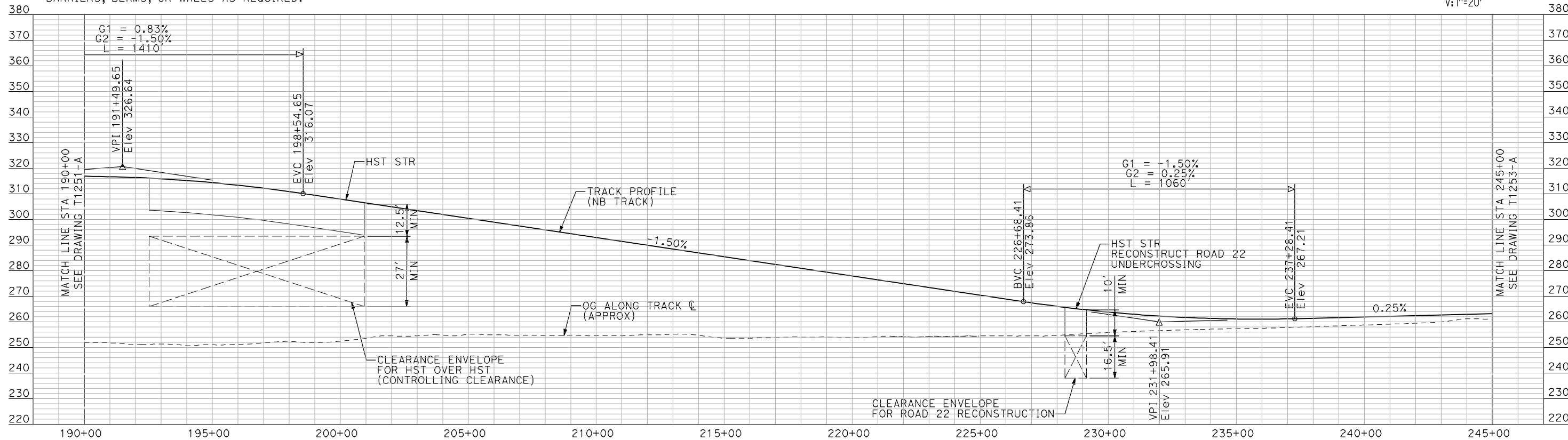
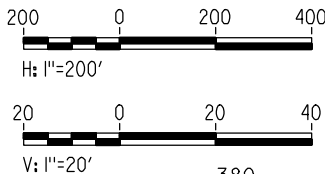
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SCALE AS SHOWN
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

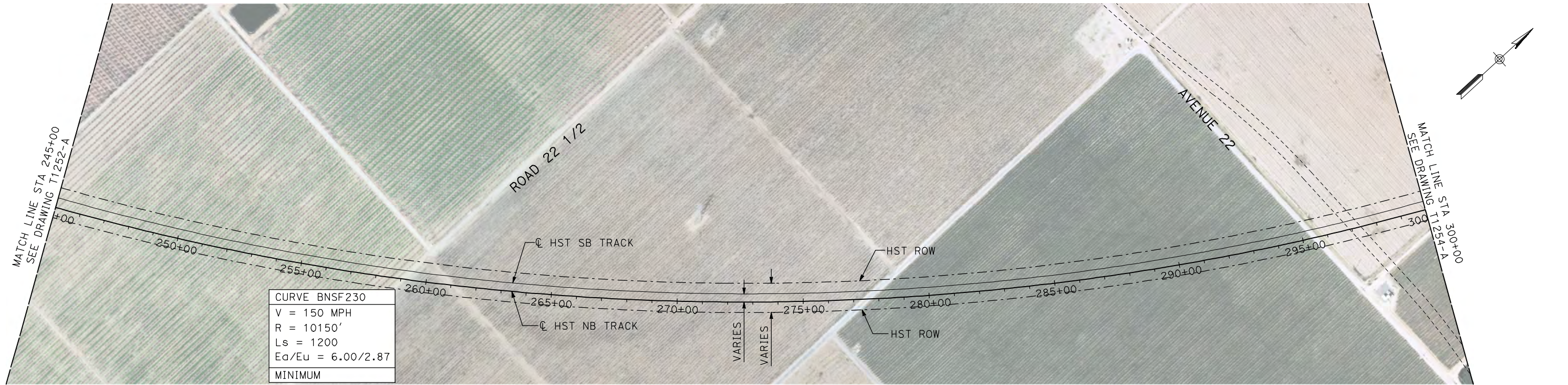
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - NB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 190+00 TO STA 245+00

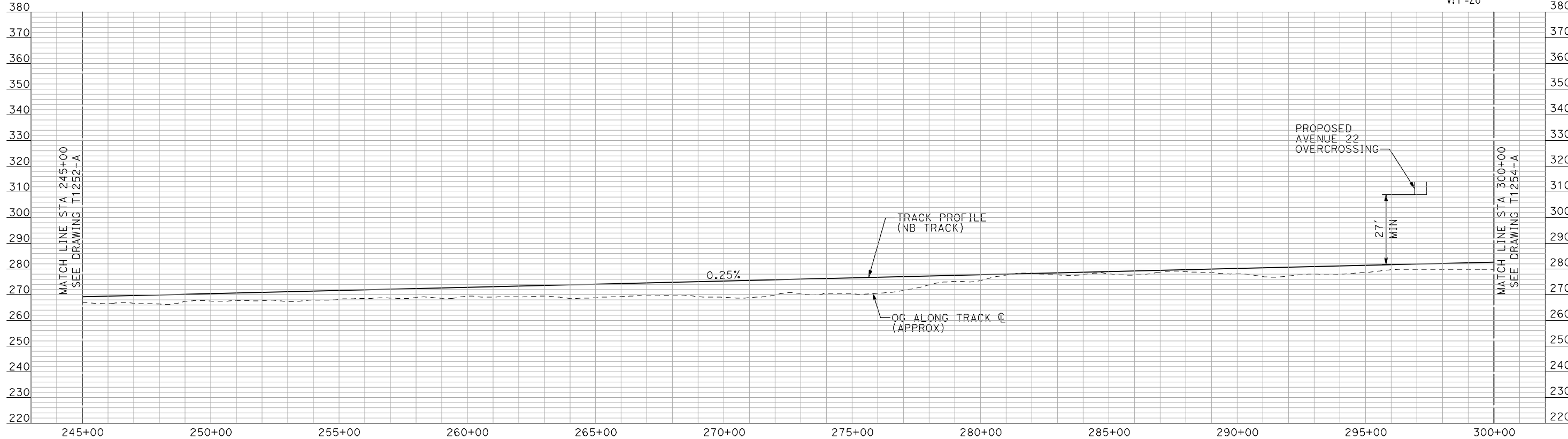
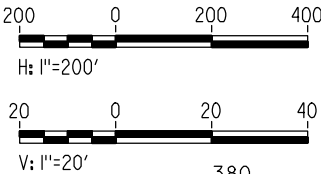
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

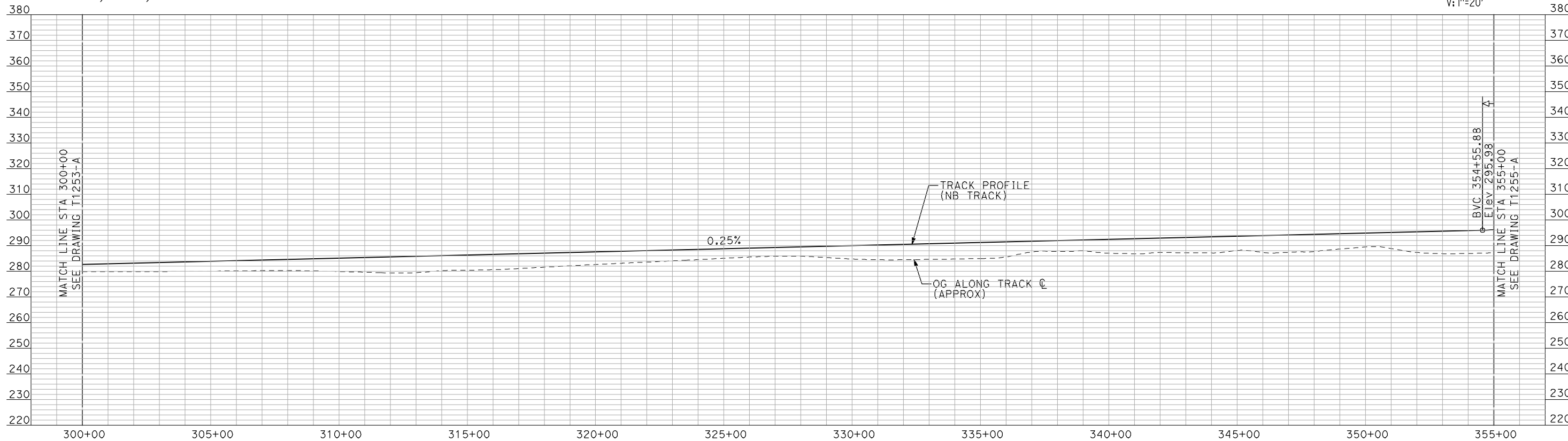
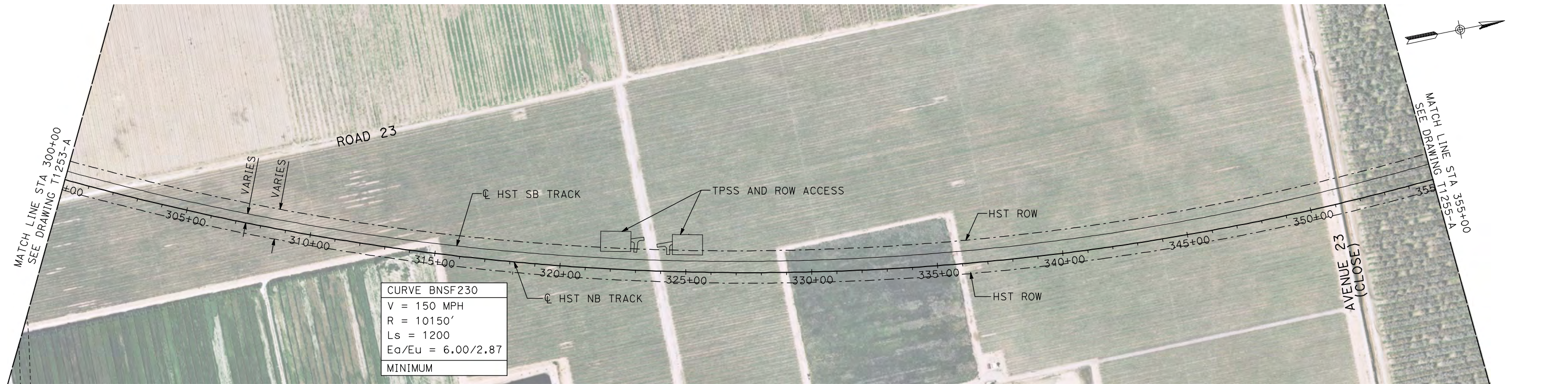
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - NB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 245+00 TO STA 300+00

CONTRACT NO. HSR06-007
DRAWING NO. T1253-A
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SHEET NO. ### OF ###

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Sacramento, CA 95811
CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - NB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 300+00 TO STA 355+00

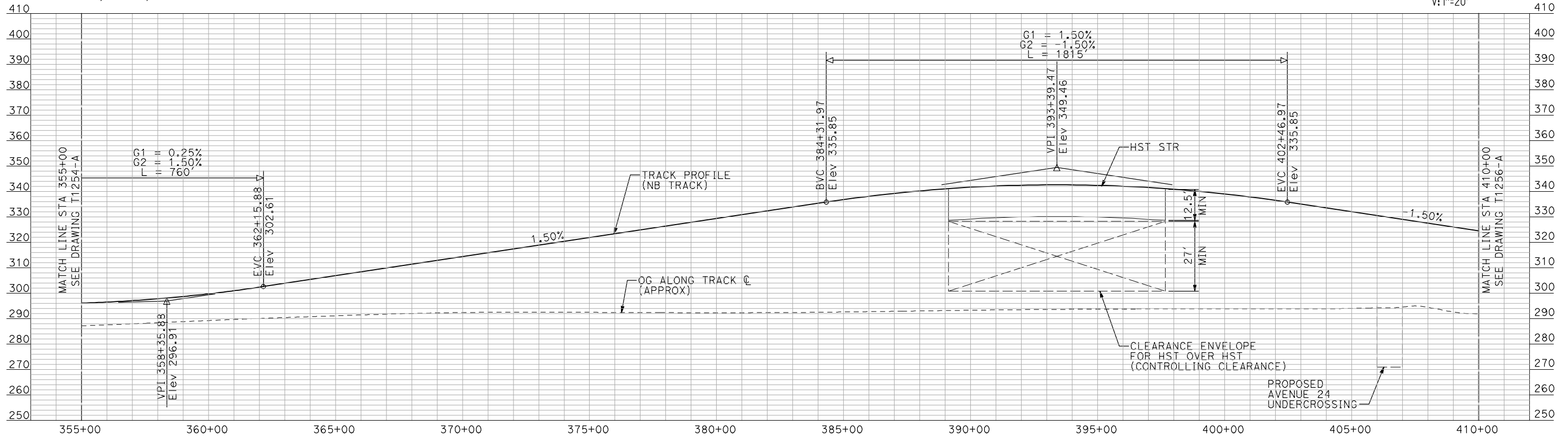
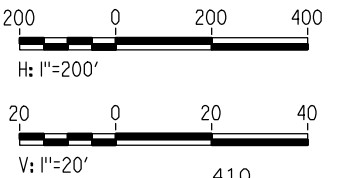
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

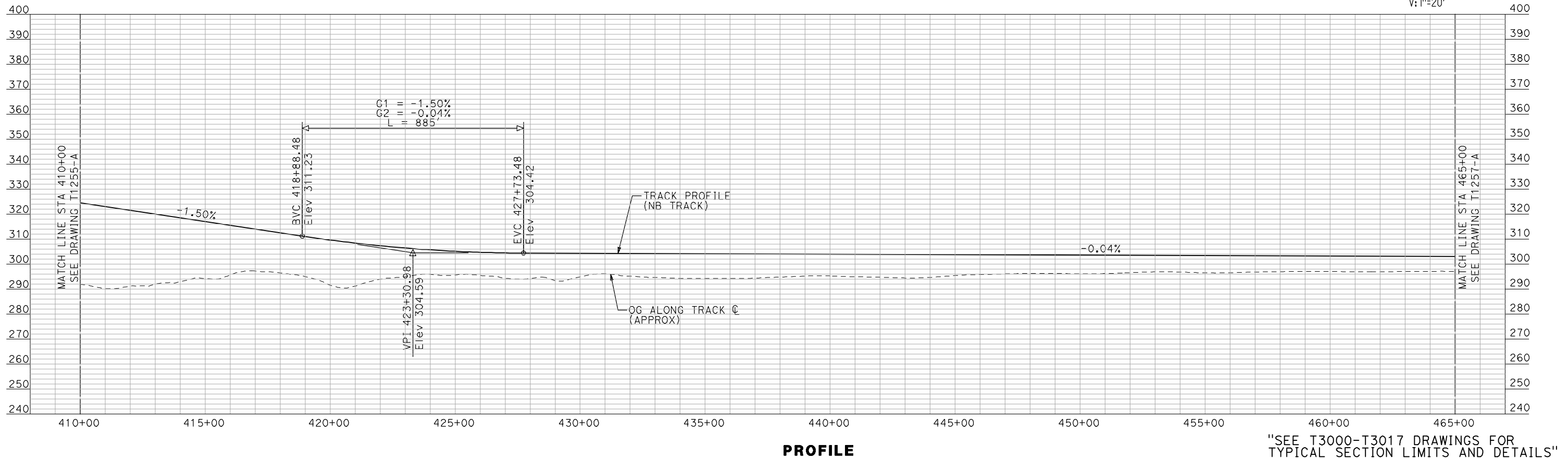
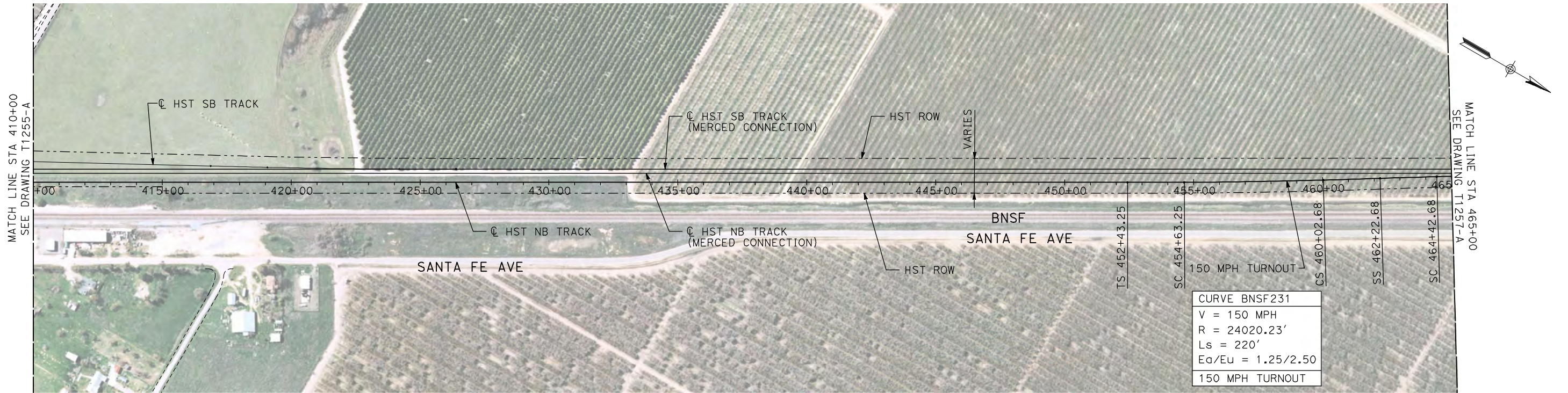


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - NB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 355+00 TO STA 410+00

CONTRACT NO. HSR06-007
DRAWING NO. T1255-A
SCALE AS SHOWN
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

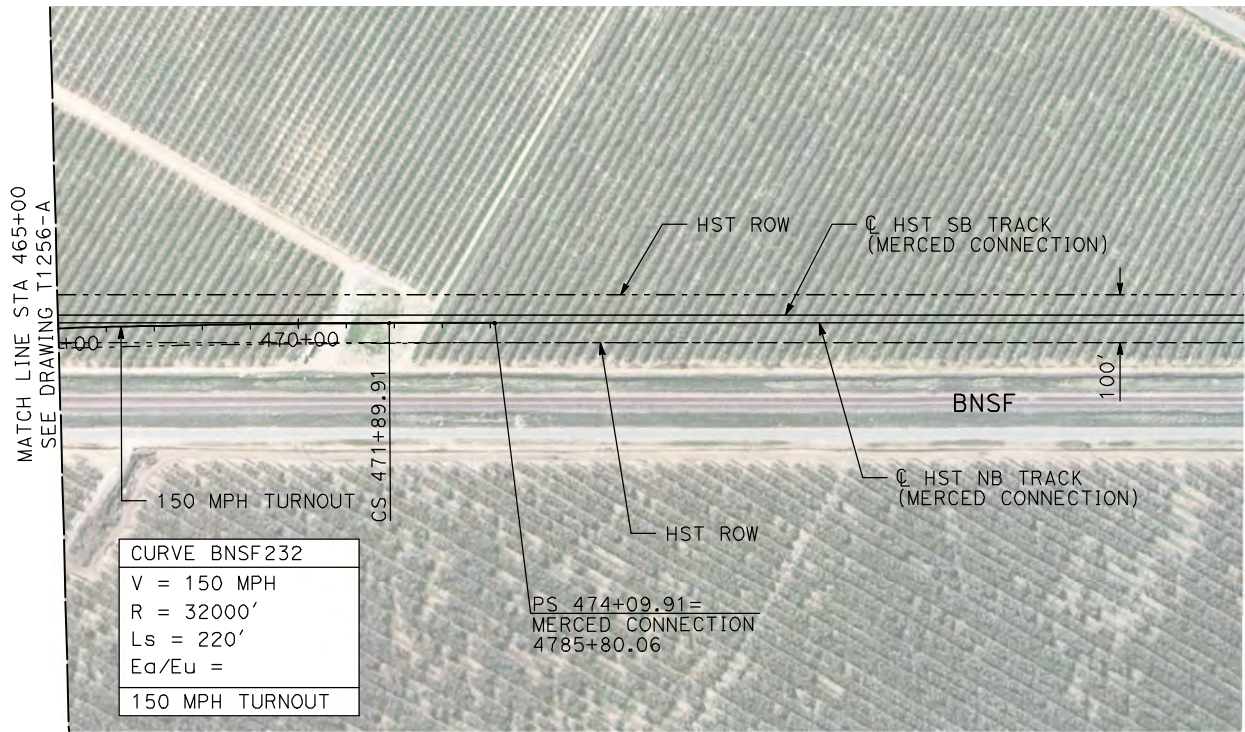
CH2M HILL



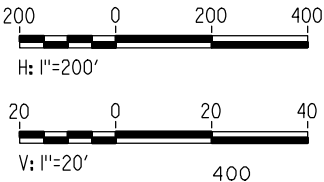
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - NB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 410+00 TO STA 465+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1256-A
SCALE
AS SHOWN
SHEET NO.
OF

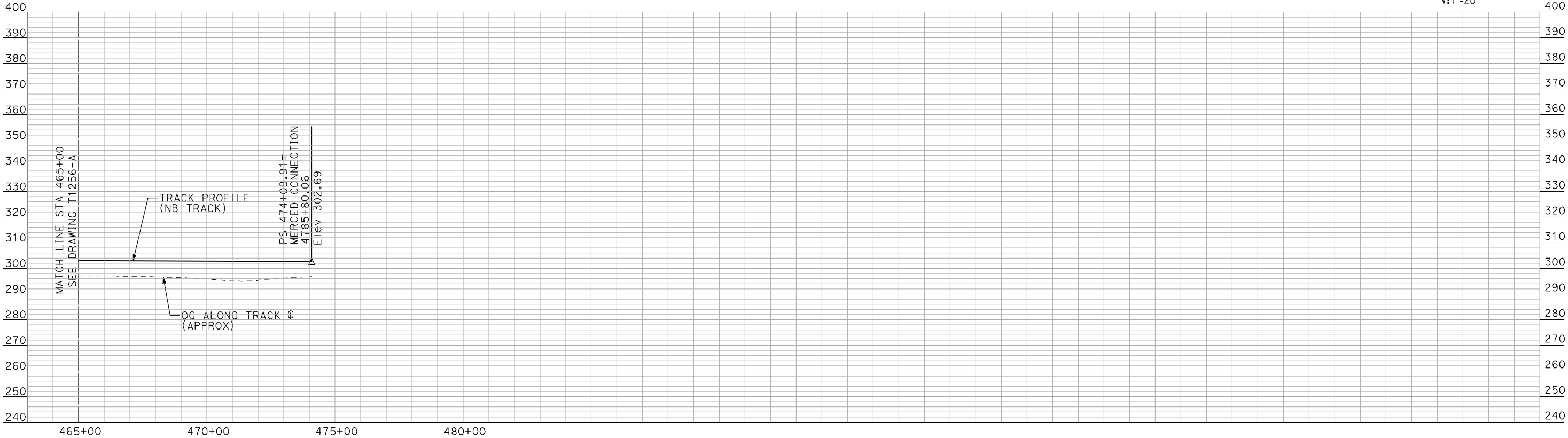
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PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

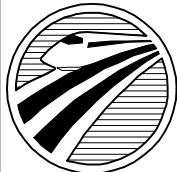
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE - NB CONNECTION

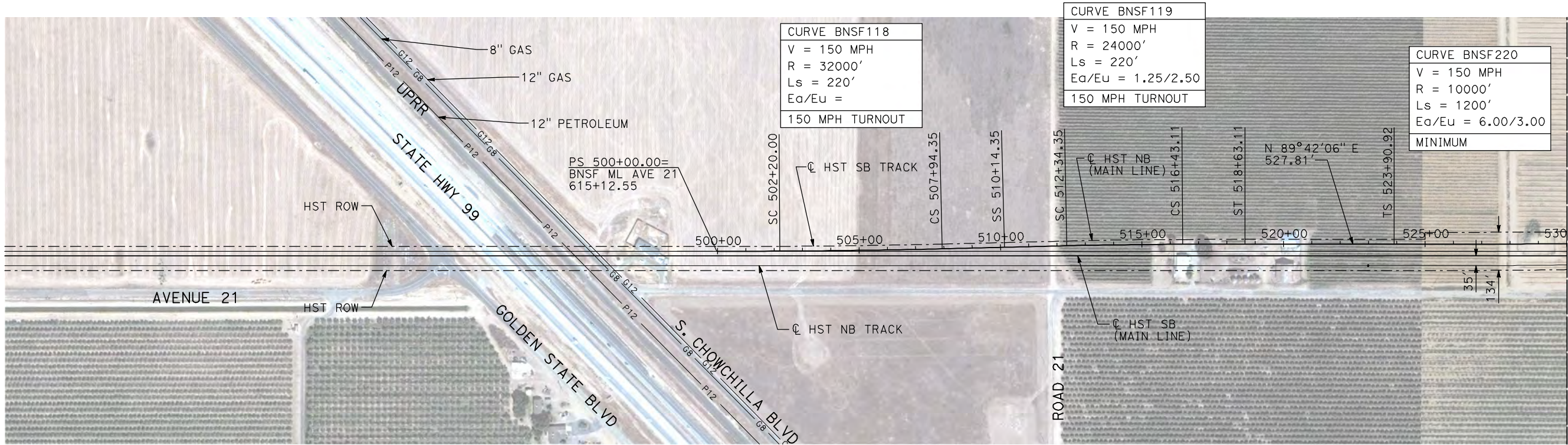
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PLAN AND PROFILE

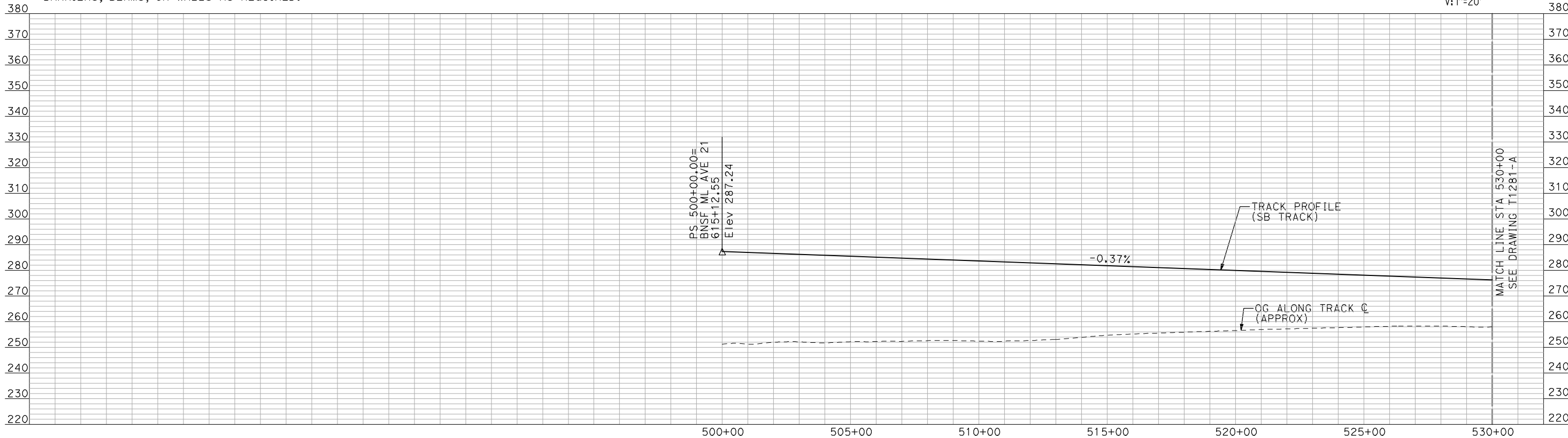
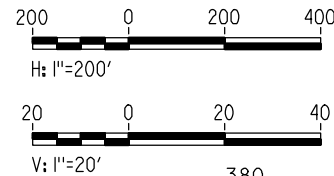
STA 465+00 TO STA 474+09.91

CONTRACT NO. HSR06-007
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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

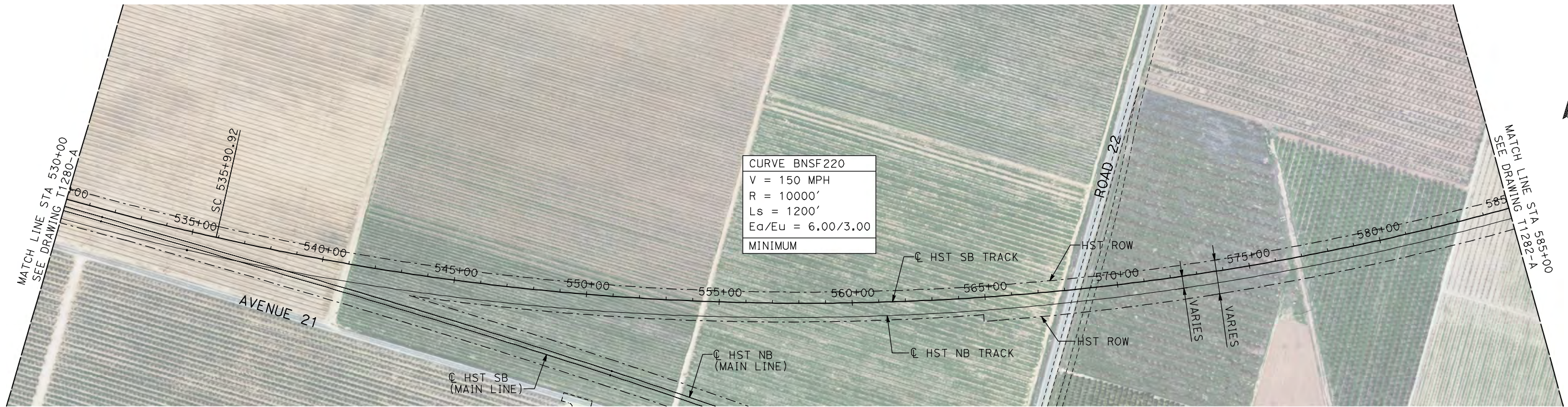
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF WYE - SB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 500+00 TO STA 530+00

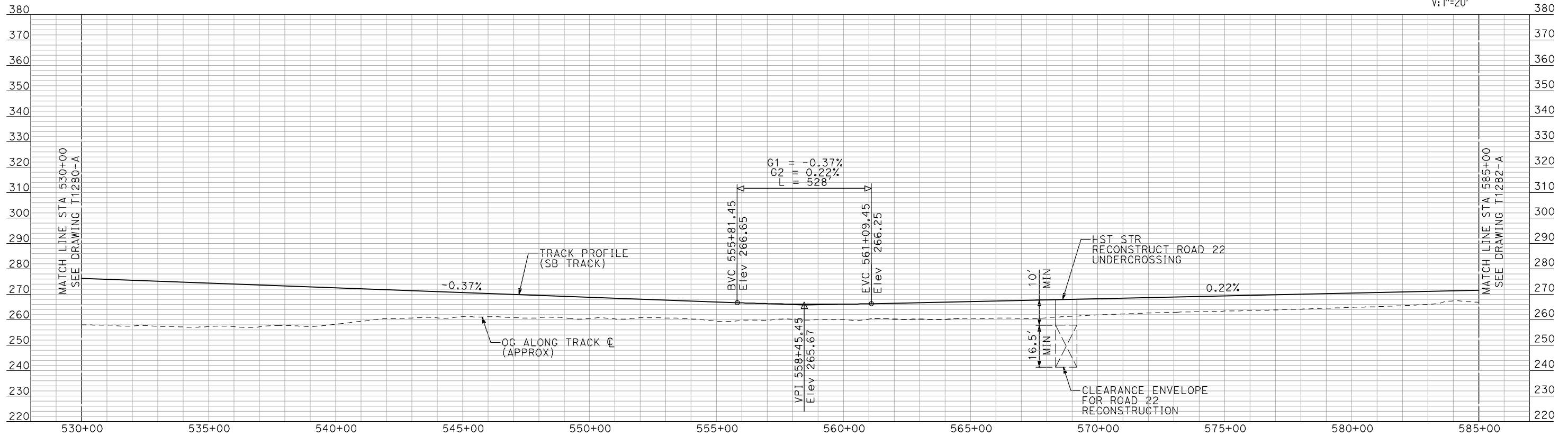
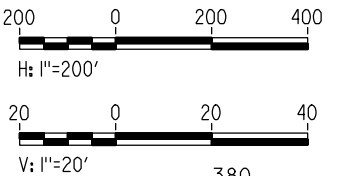
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HSR06-007
DRAWING NO.
T1280-A
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AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

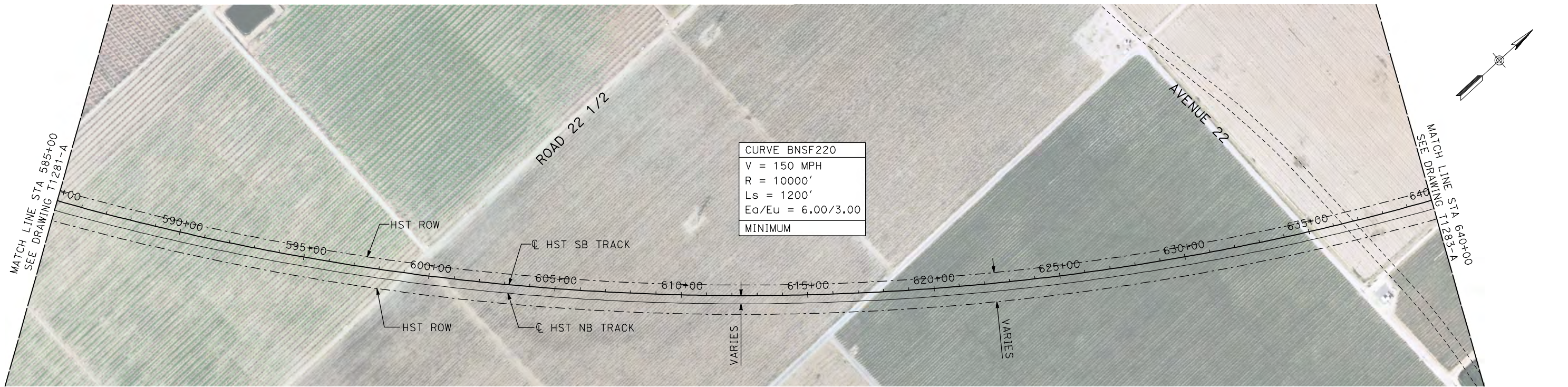
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - SB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 530+00 TO STA 585+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1281-A
SCALE
AS SHOWN
SHEET NO.
OF

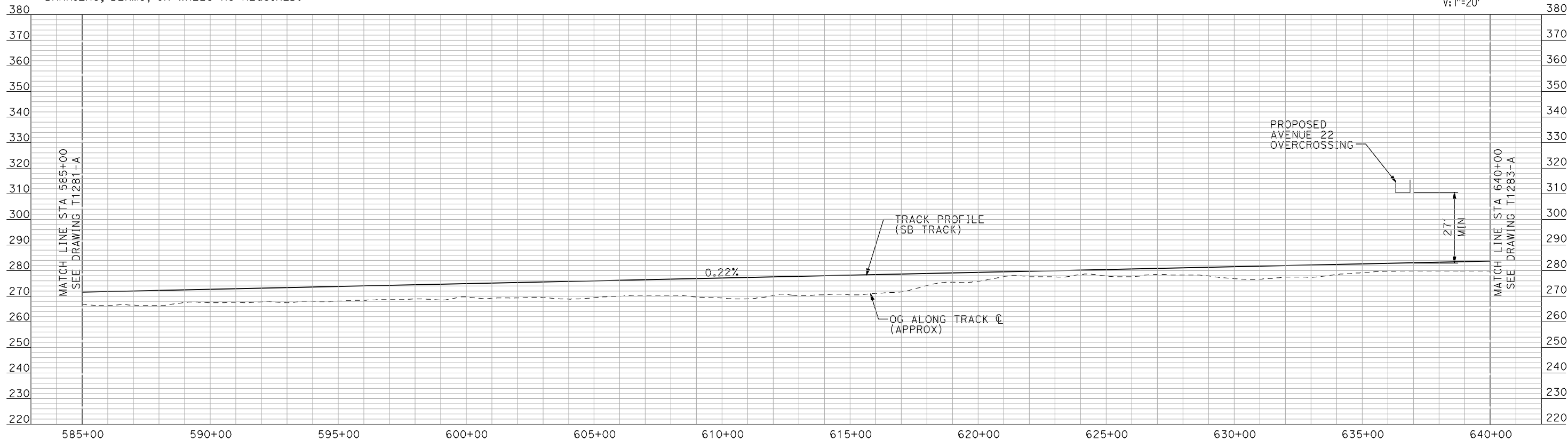
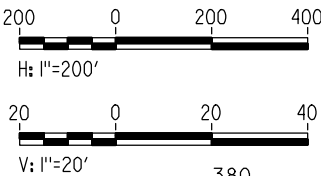
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CURVE BNSF220
V = 150 MPH
R = 10000'
Ls = 1200'
Ea/Eu = 6.00/3.00
MINIMUM

- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



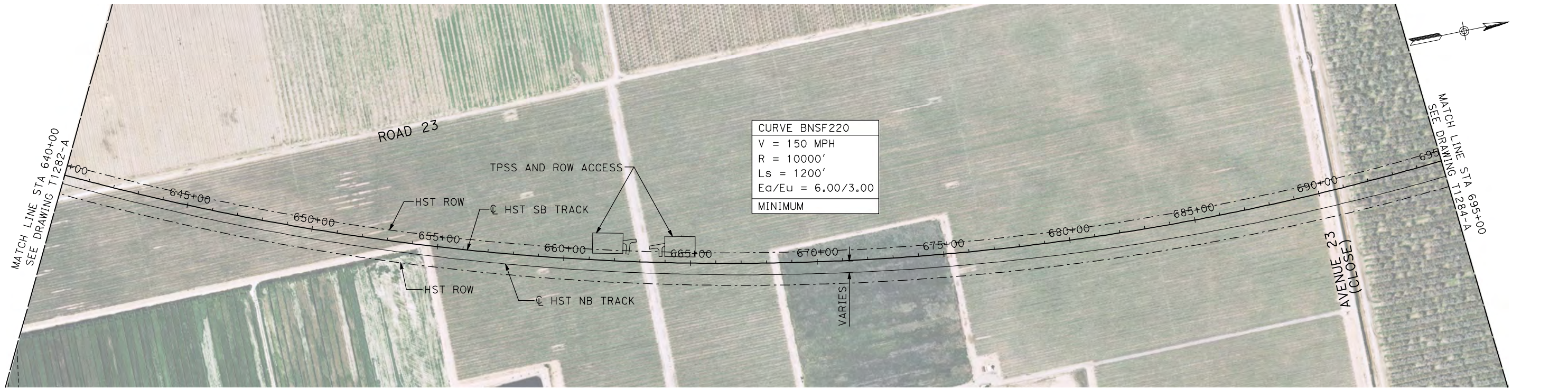
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE - SB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 585+00 TO STA 640+00

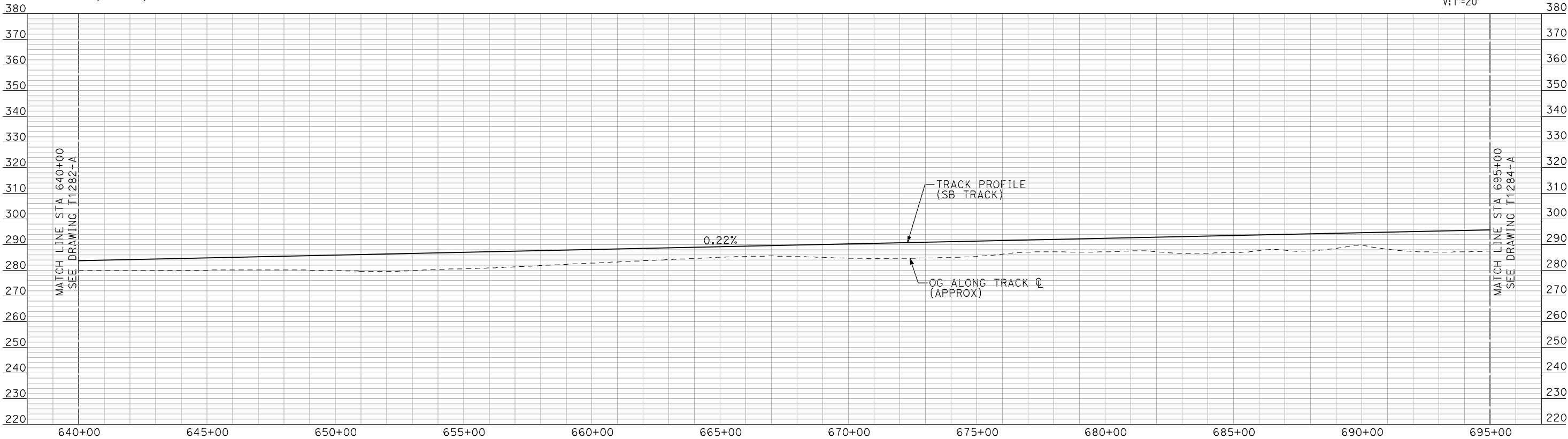
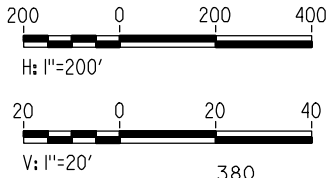
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DRAWING NO. T1282-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

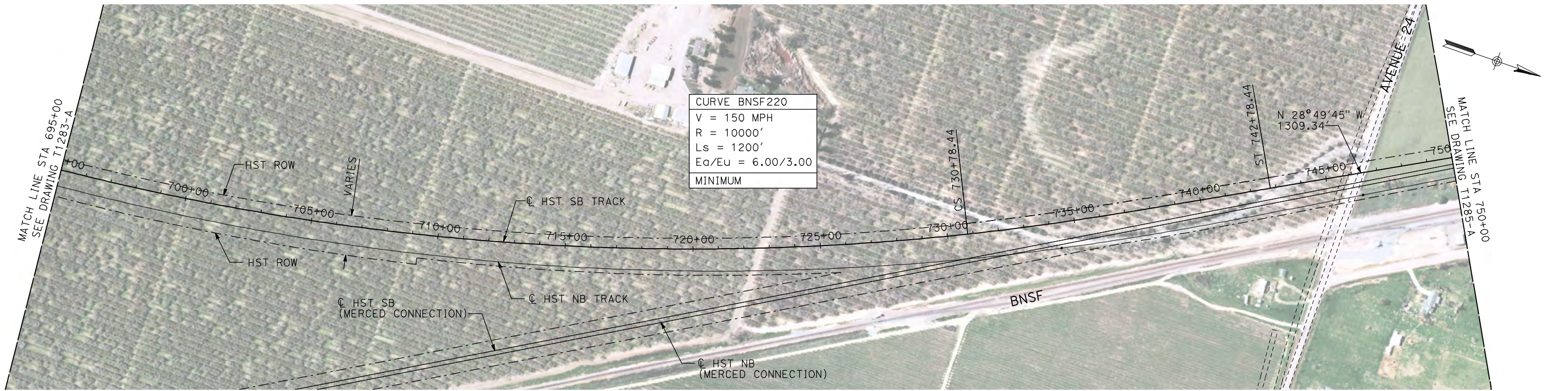
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - SB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 640+00 TO STA 695+00

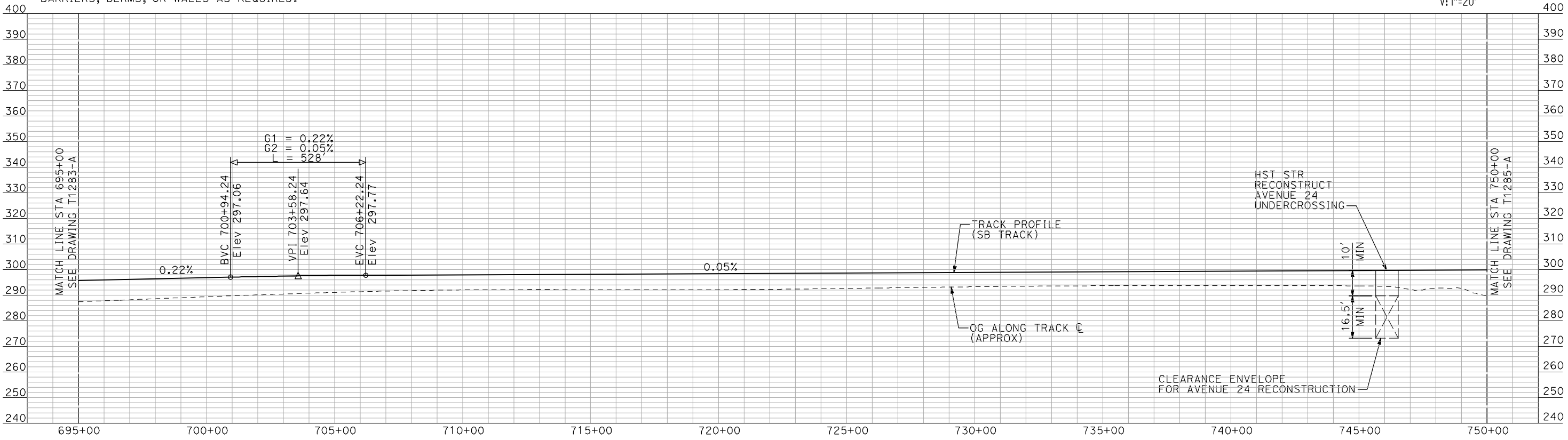
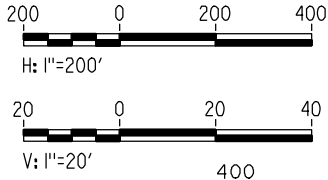
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PLAN

- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - SB CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 695+00 TO STA 750+00

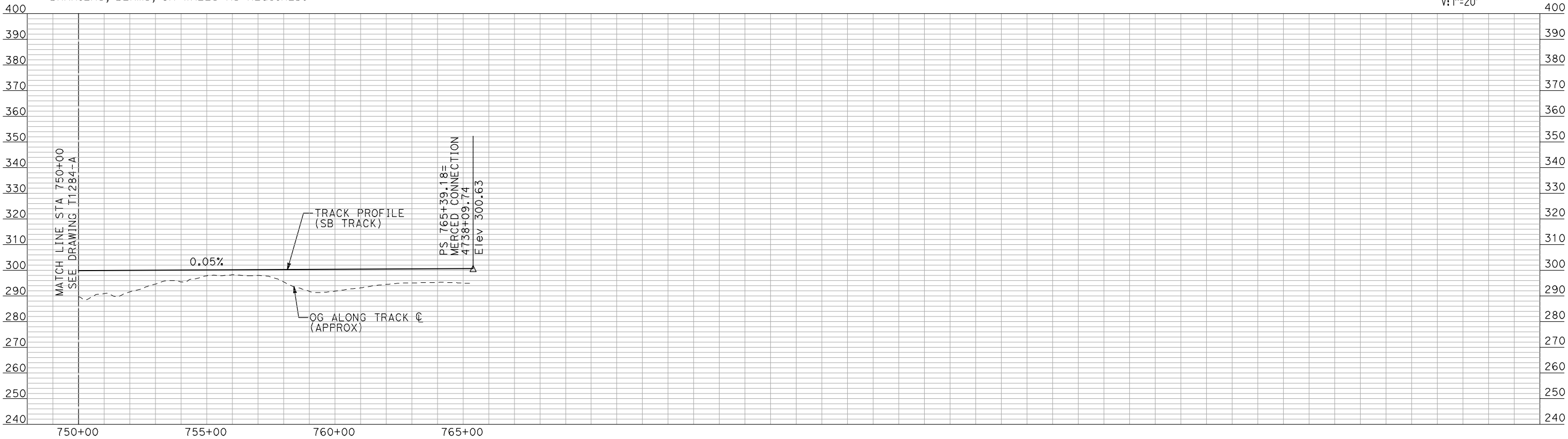
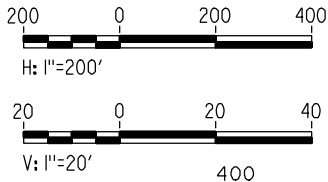
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HSR06-007
DRAWING NO.
T1284-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS

DRAWN BY
H. SULLIVAN

CHECKED BY
A. BOONE

IN CHARGE
A. BOONE

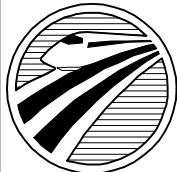
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE - SB CONNECTION

AVENUE 21

PLAN AND PROFILE

STA 750+00 TO STA 765+39.18

CONTRACT NO.
HSR06-007

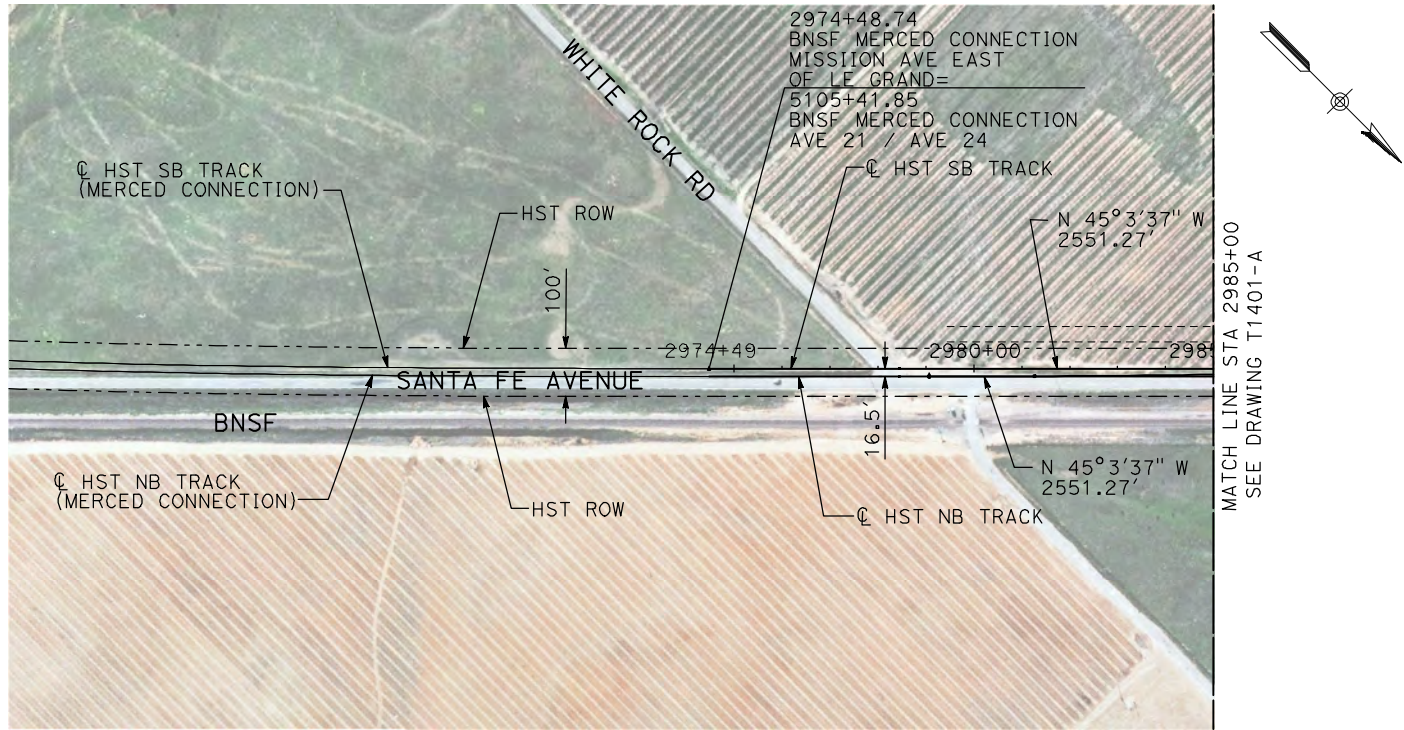
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SCALE
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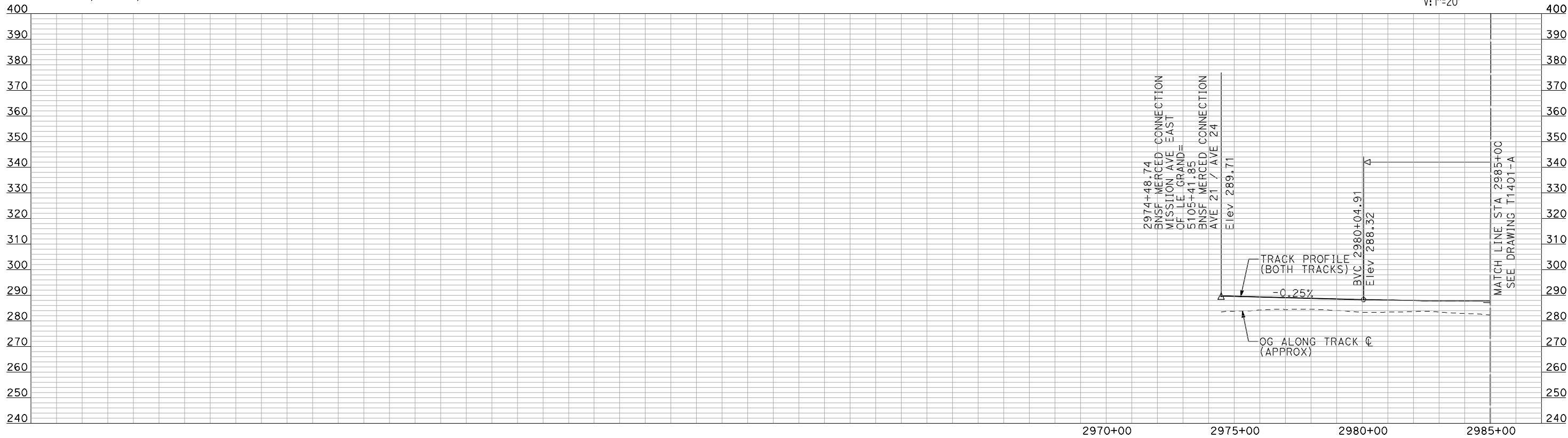
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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION

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2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 2974+48.74 TO STA 2985+00

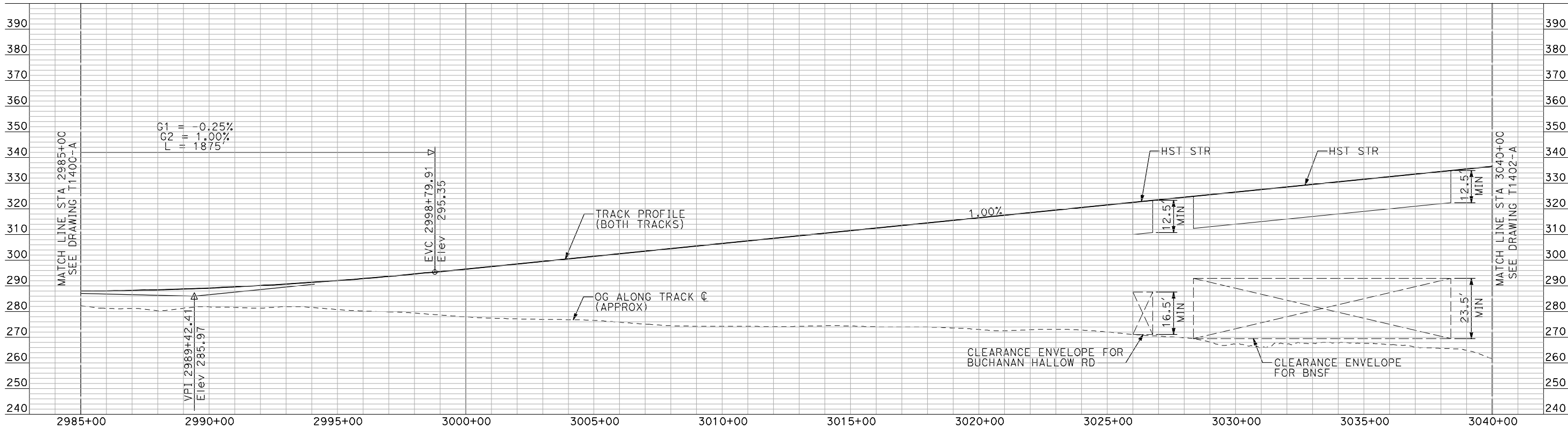
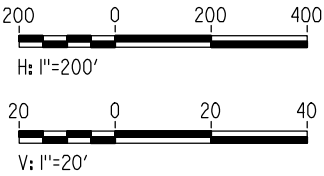
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SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
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IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
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SUBMITTAL

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CONSTRUCTION



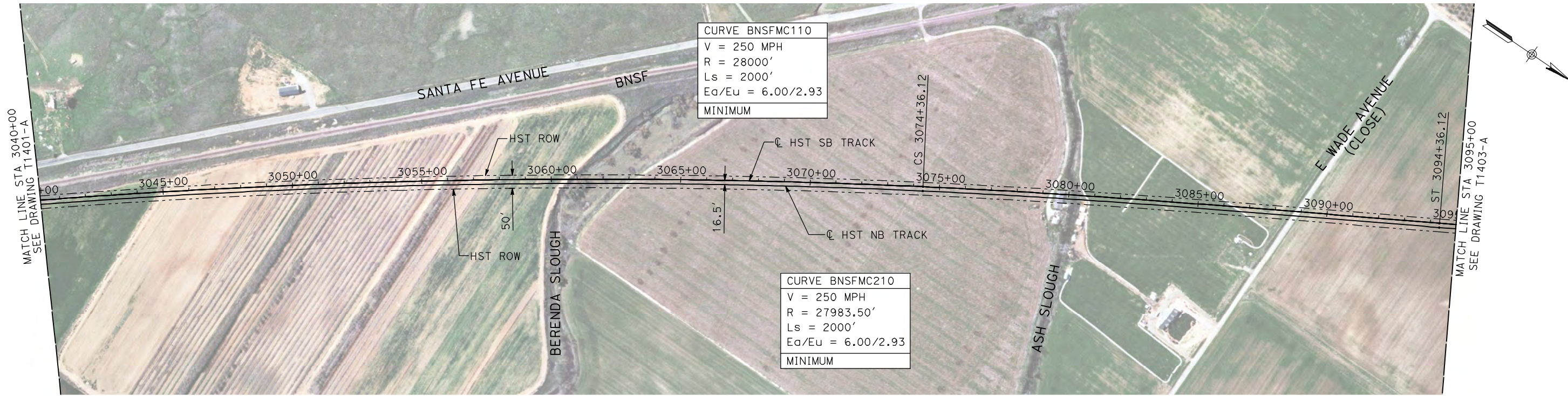
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 2985+00 TO STA 3040+00

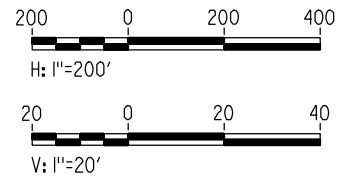
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- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

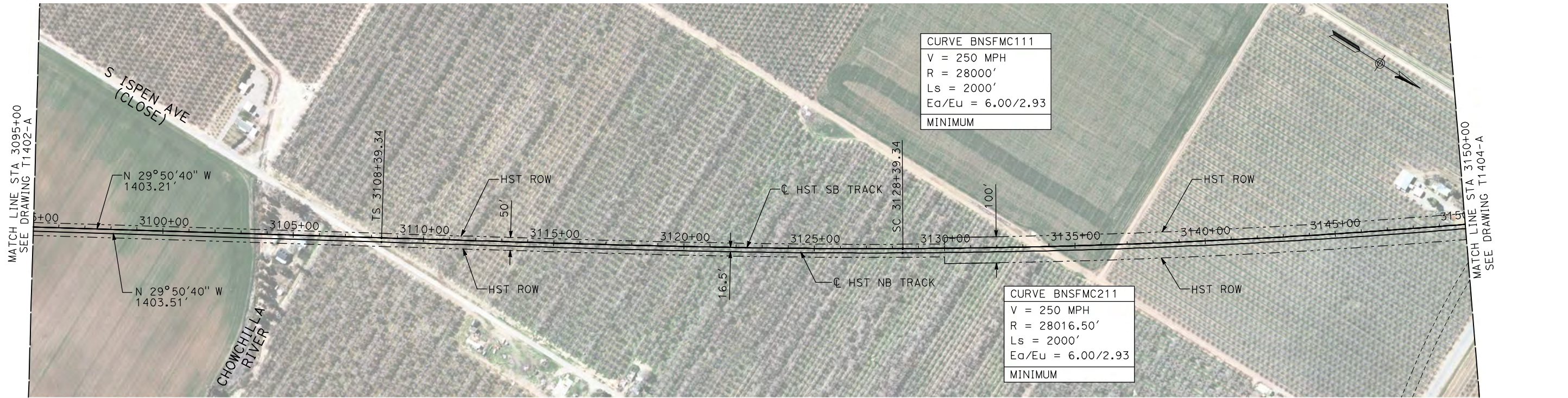


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

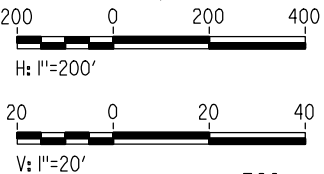
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MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3040+00 TO STA 3095+00

CONTRACT NO. HSR06-007
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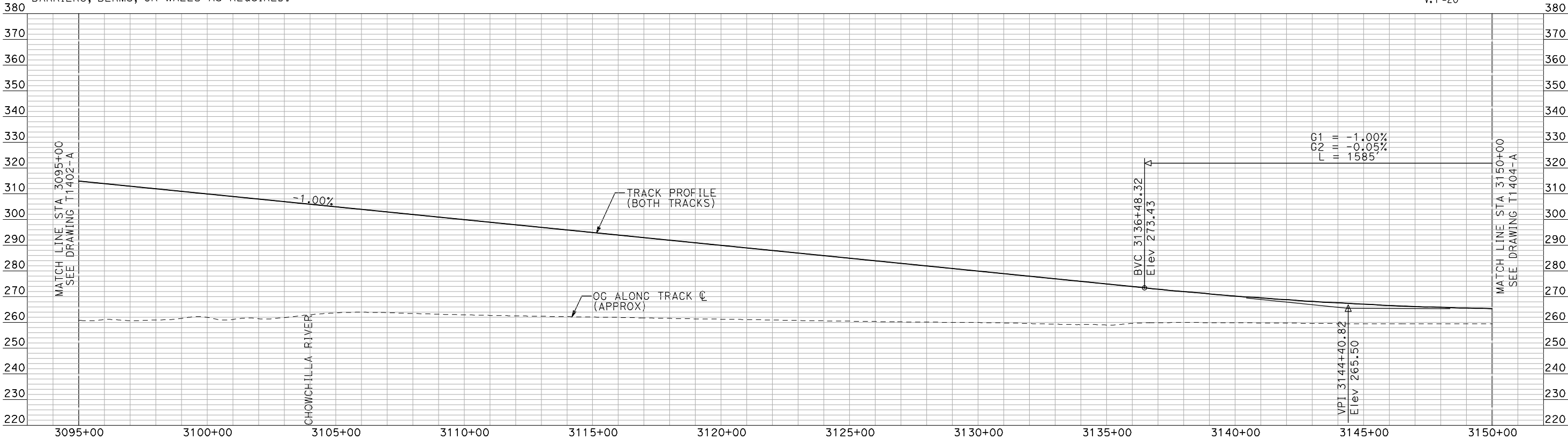
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PLAN



- NOTES:
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

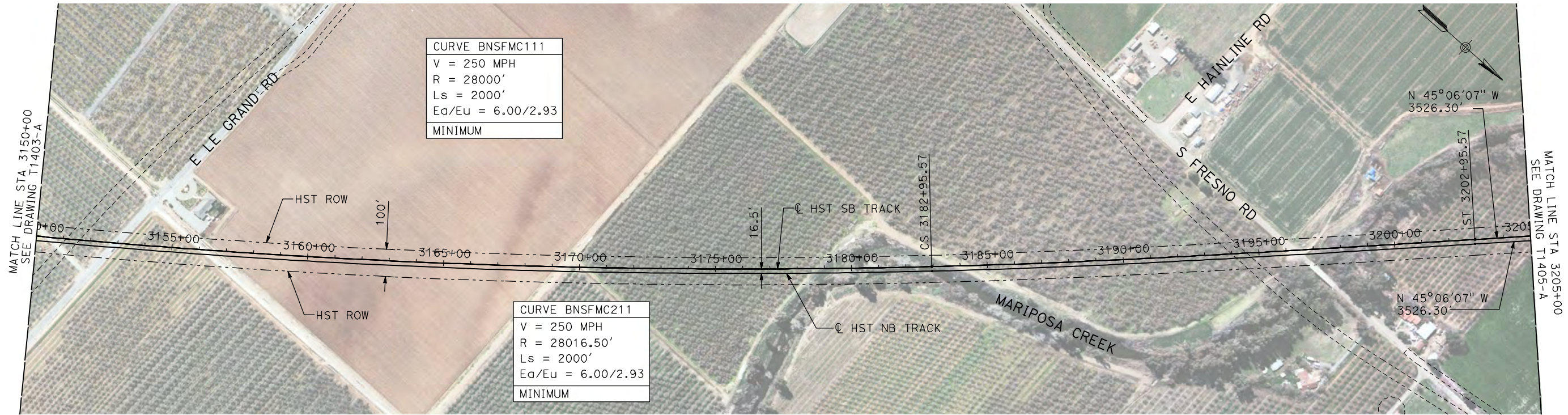


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

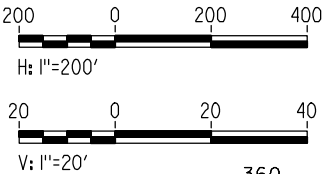
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MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3095+00 TO STA 3150+00

CONTRACT NO. HSR06-007
DRAWING NO. T1403-A
SCALE AS SHOWN
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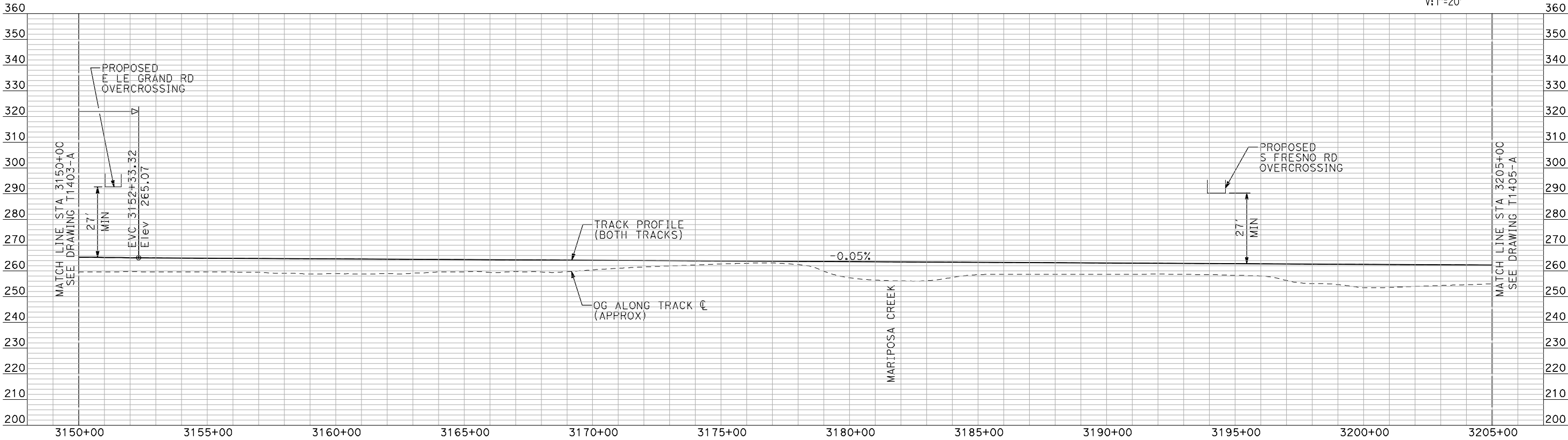
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PLAN



- NOTES:
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

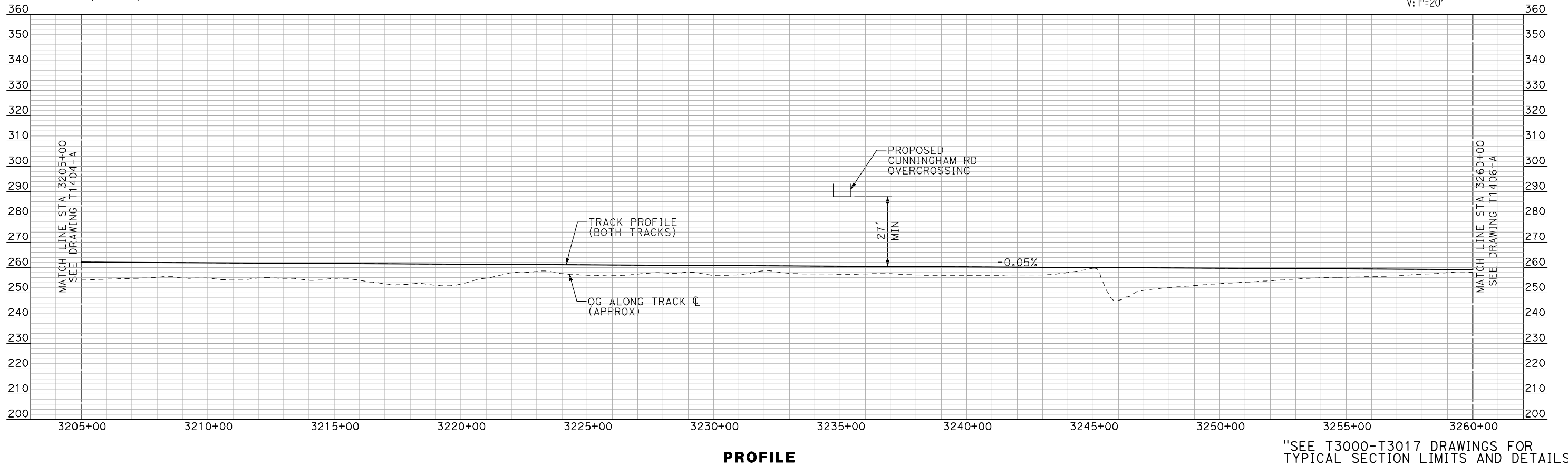
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MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3150+00 TO STA 3205+00

CONTRACT NO. HSR06-007
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SCALE AS SHOWN
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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

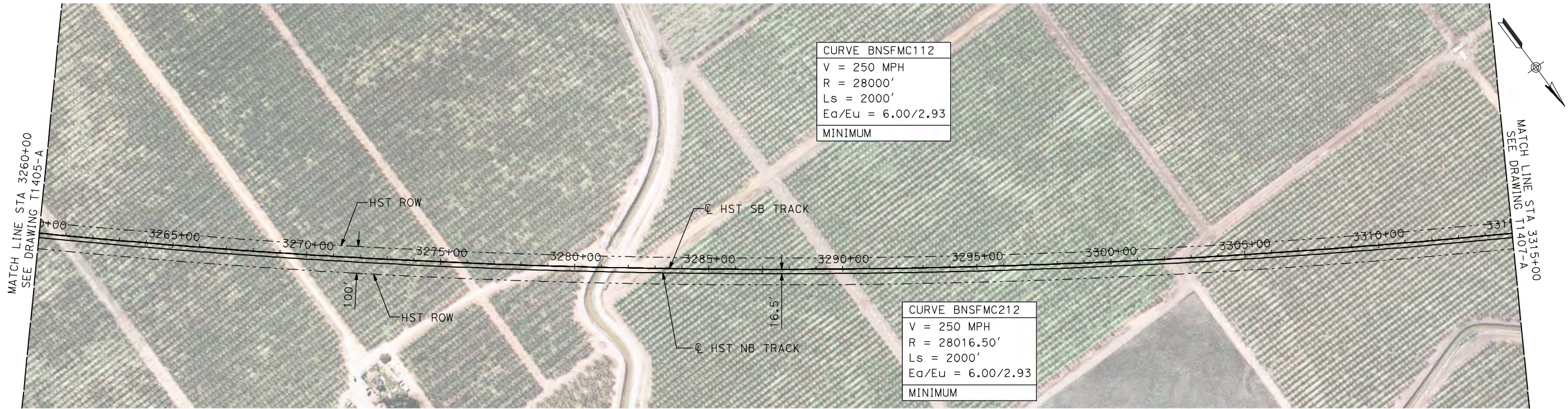


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3205+00 TO STA 3260+00

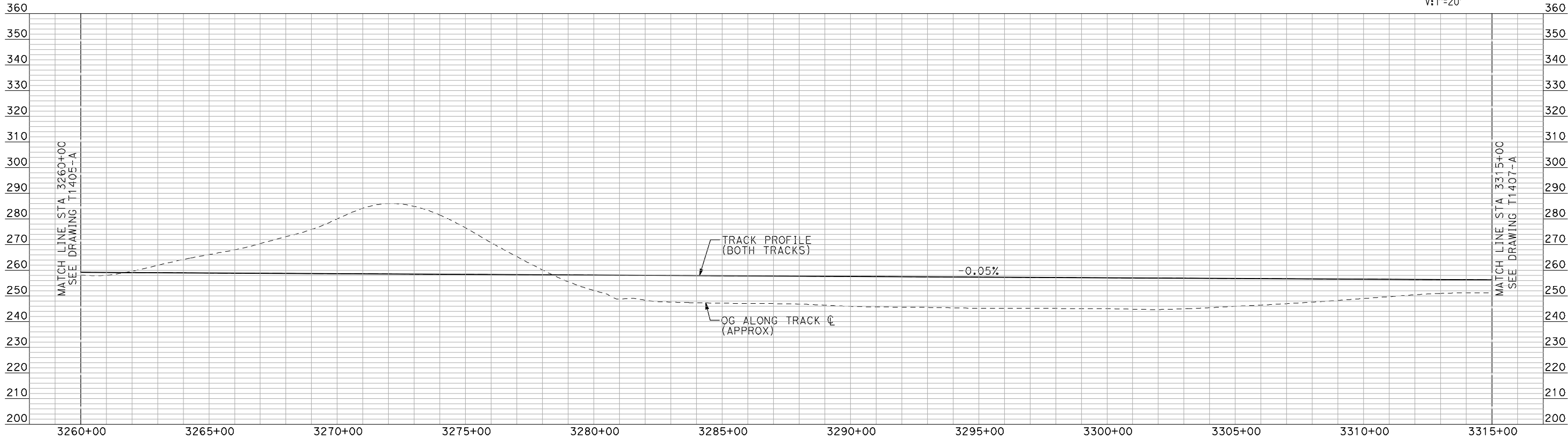
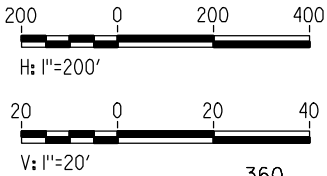
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

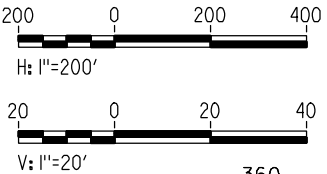
BNSF MERCED CONNECTION
MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3260+00 TO STA 3315+00

CONTRACT NO. HSR06-007
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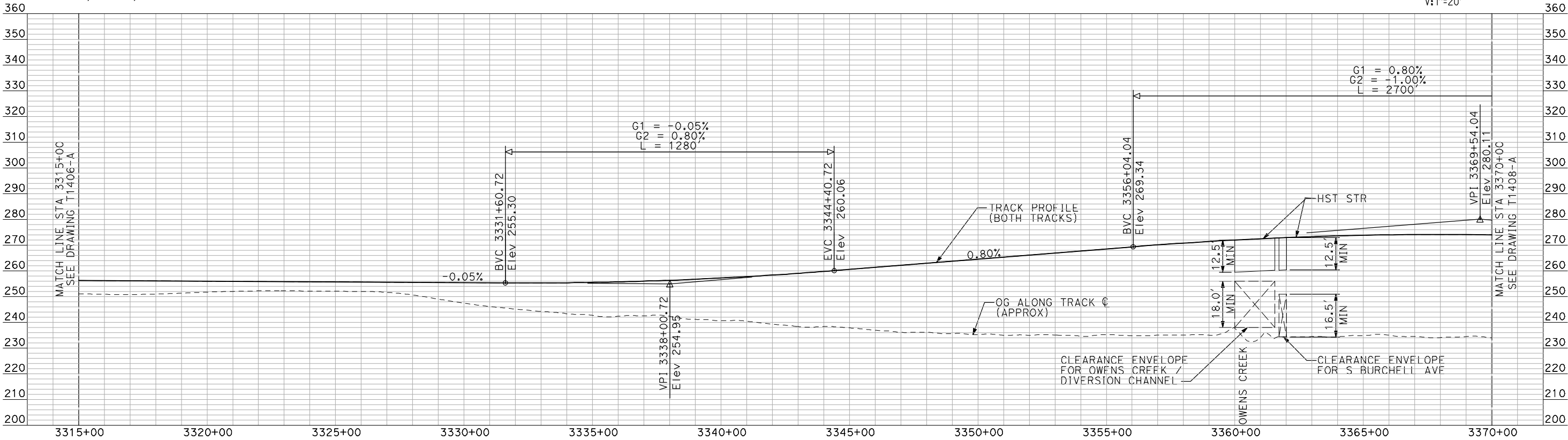
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PLAN



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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
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REV	DATE	BY	CHK	APP	DESCRIPTION

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AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

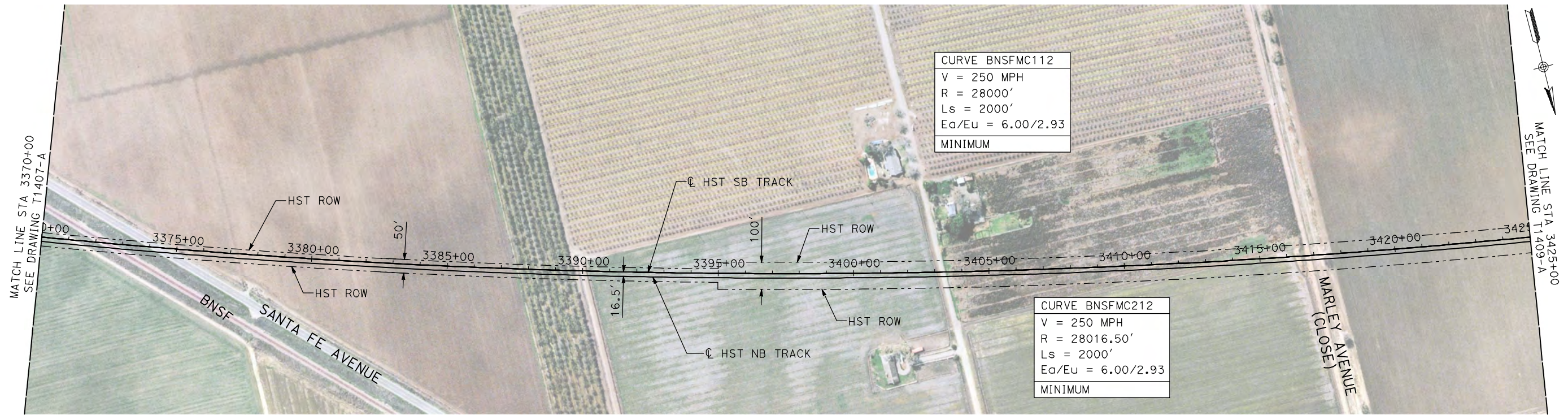


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

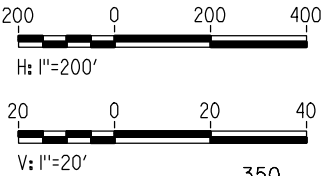
BNSF MERCED CONNECTION
MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3315+00 TO STA 3370+00

CONTRACT NO. HSR06-007
DRAWING NO. T1407-A
SCALE AS SHOWN
SHEET NO. ### OF ###

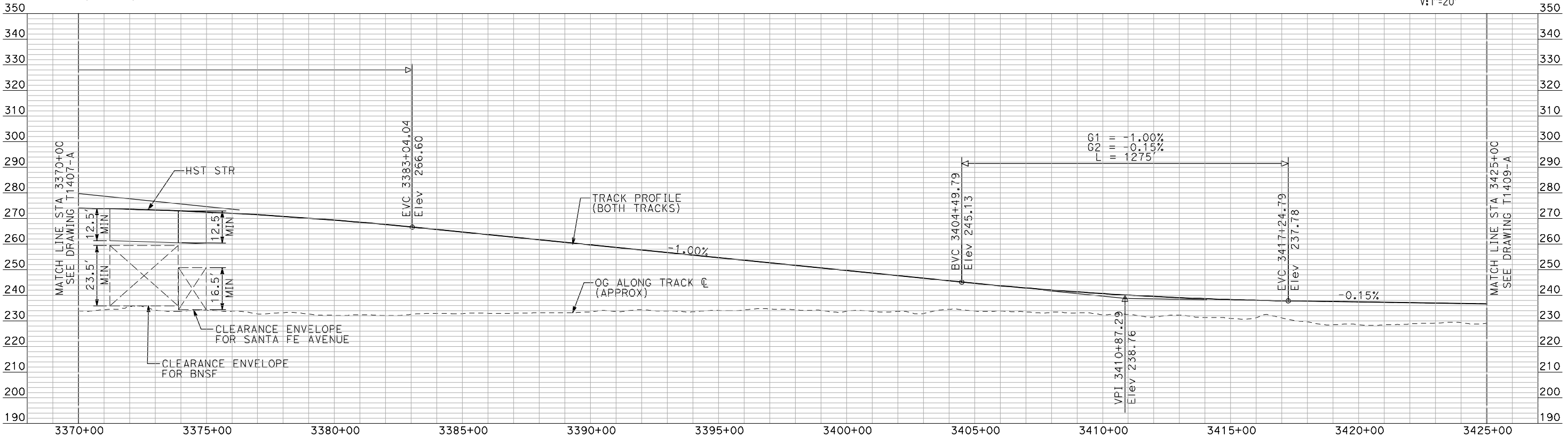
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PLAN



- NOTES:
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

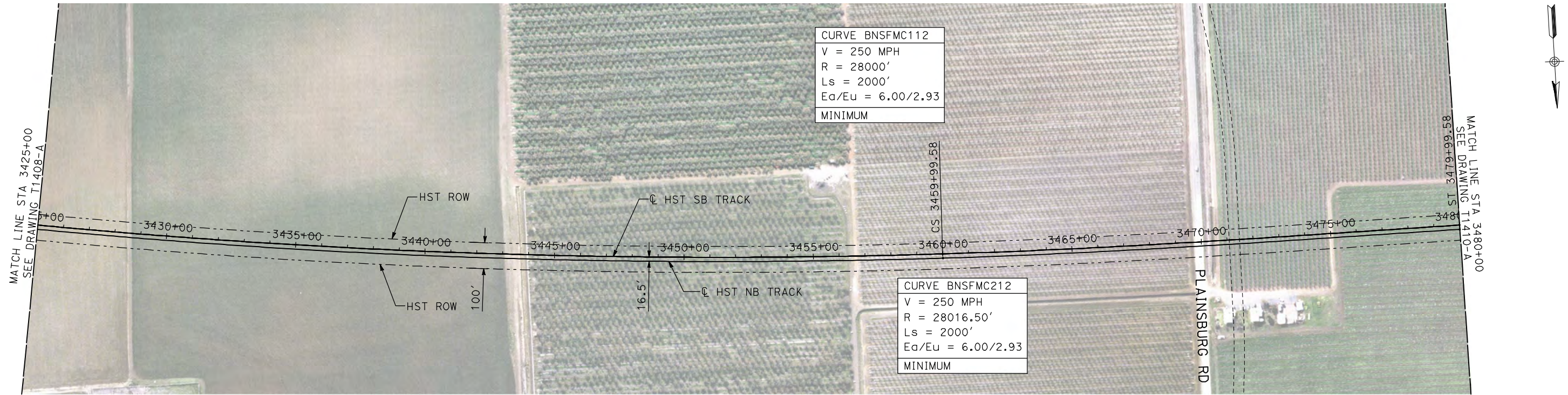
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



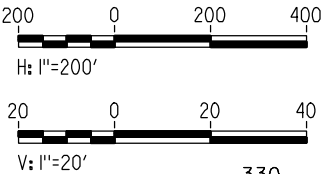
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3370+00 TO STA 3425+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1408-A
SCALE
AS SHOWN
SHEET NO.
OF

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PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

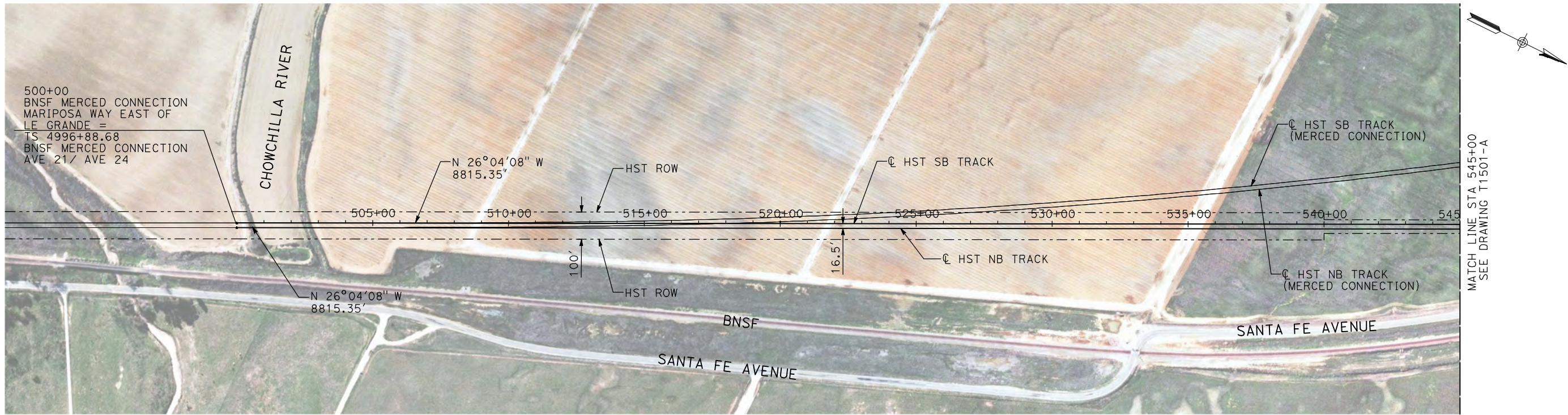
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
MISSION AVENUE EAST OF LE GRAND
PLAN AND PROFILE
STA 3425+00 TO STA 3480+00

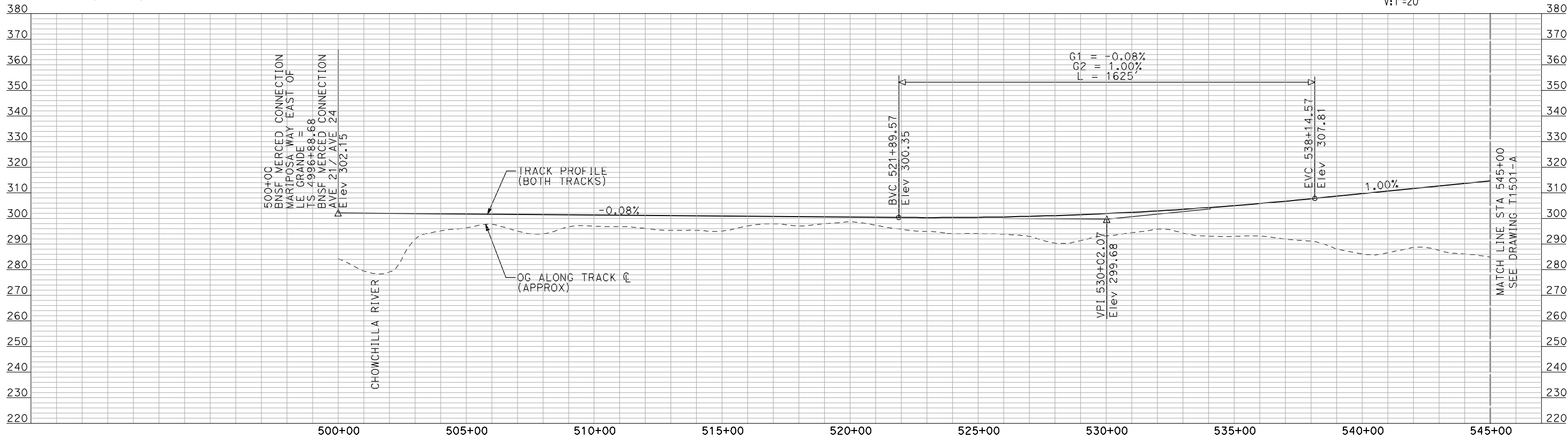
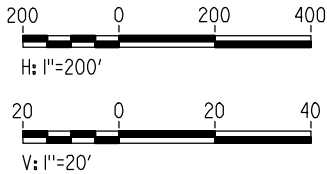
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DRAWING NO. T1409-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

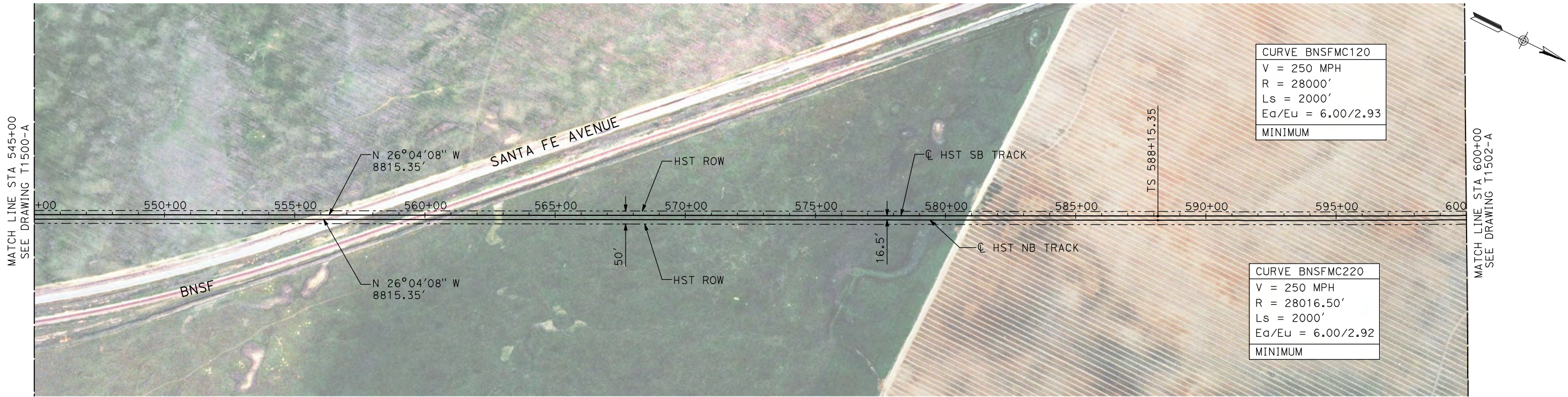


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 500+00 TO STA 545+00

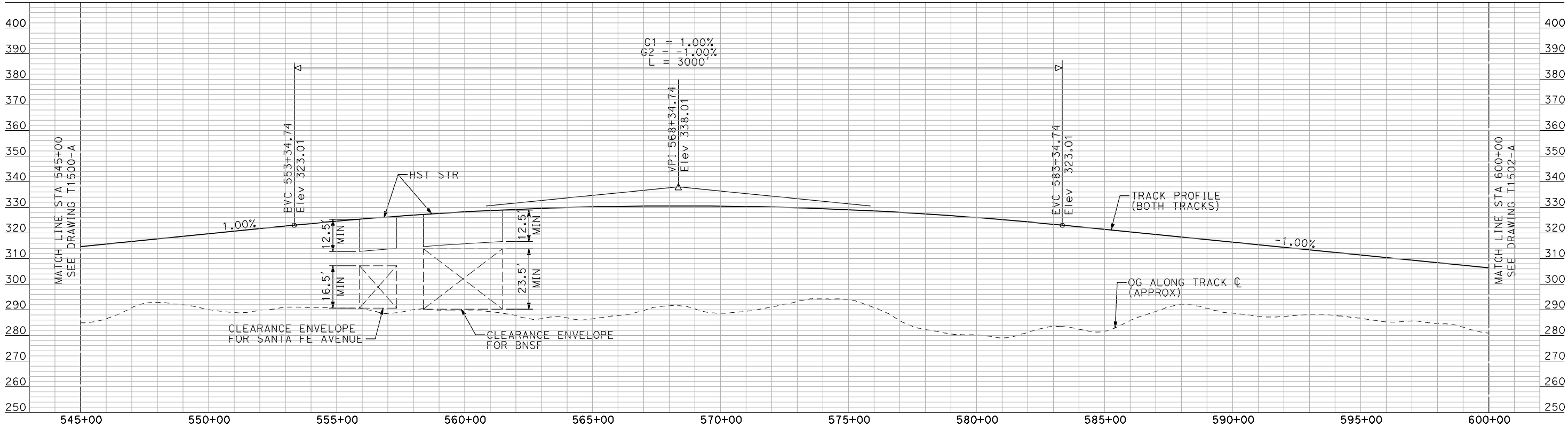
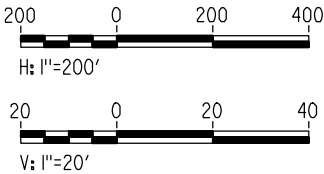
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HSR06-007
DRAWING NO.
T1500-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 545+00 TO STA 600+00

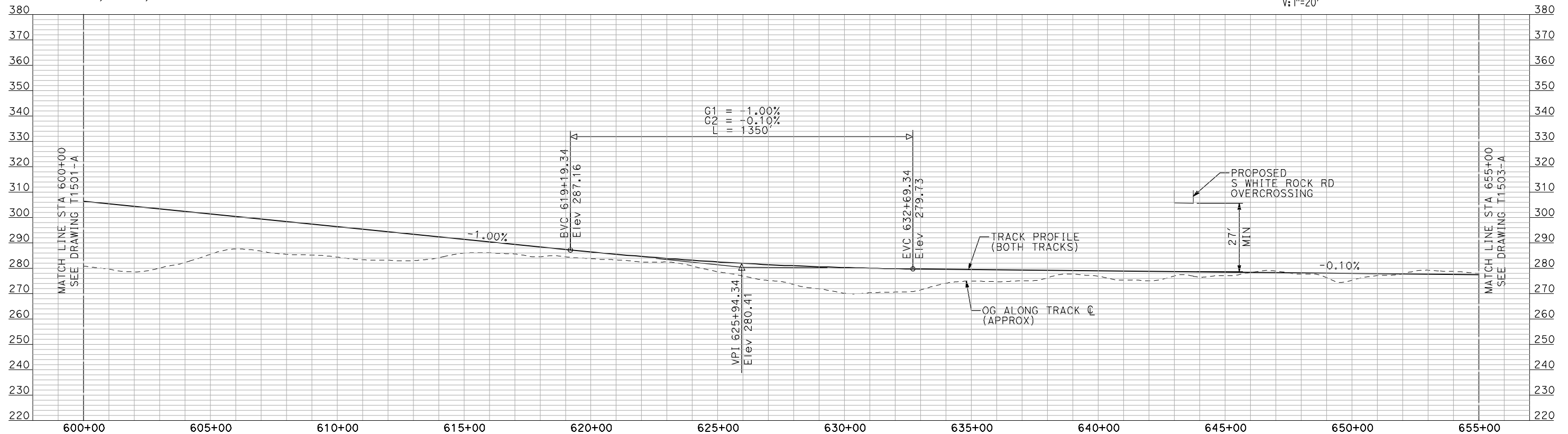
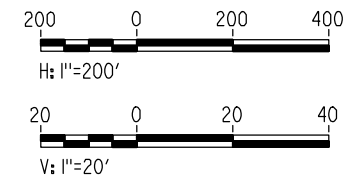
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DRAWING NO. T1501-A
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SHEET NO. ### OF ###

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

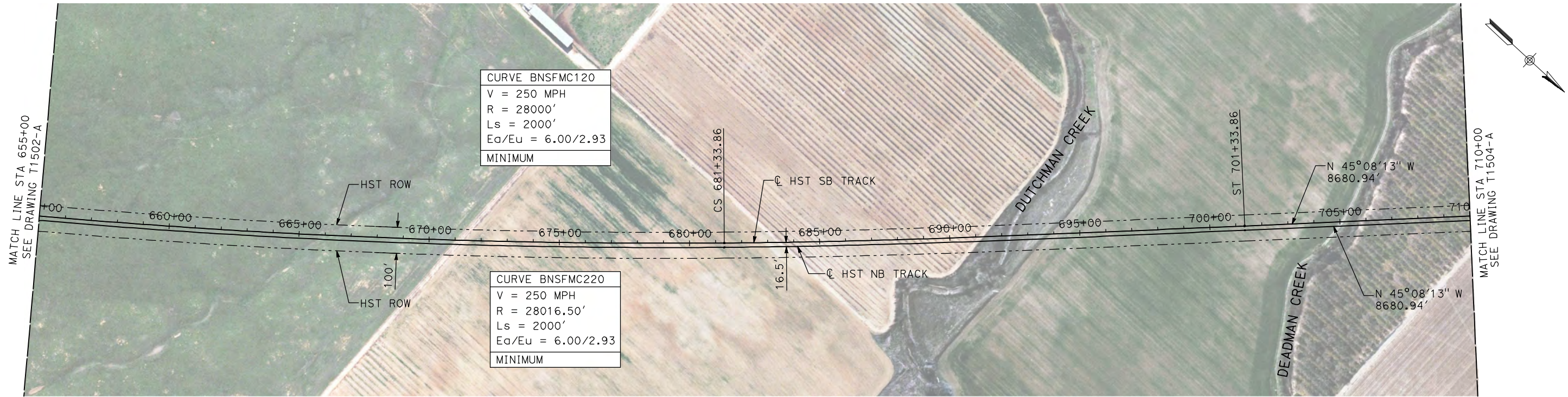


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 600+00 TO STA 655+00

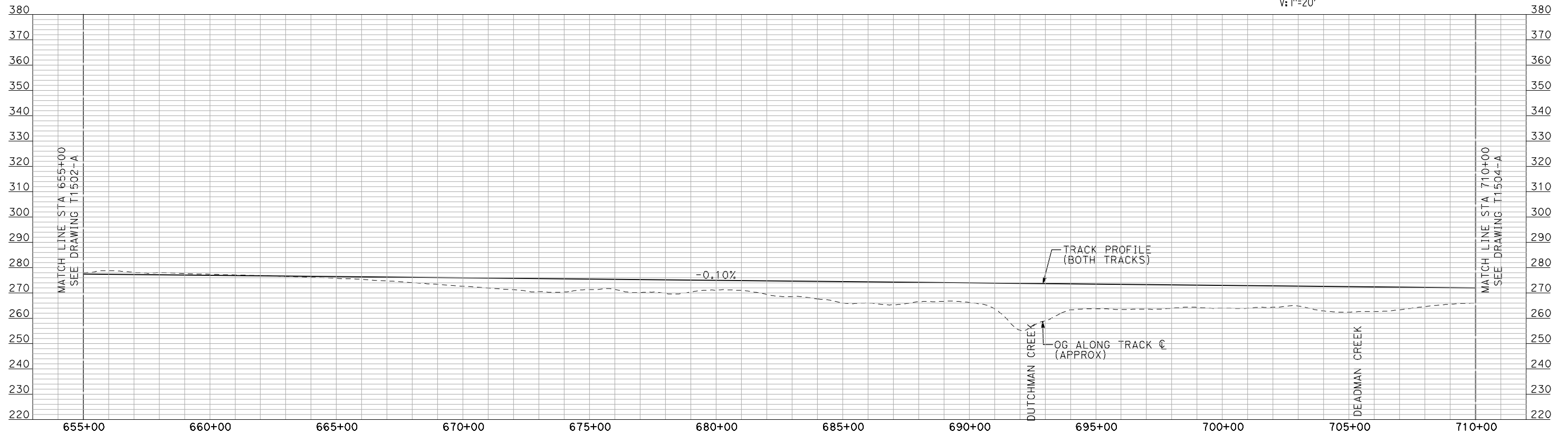
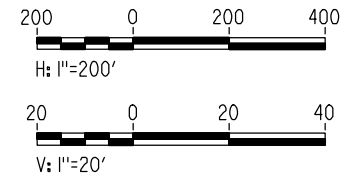
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DRAWING NO. T1502-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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- NOTES:
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 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



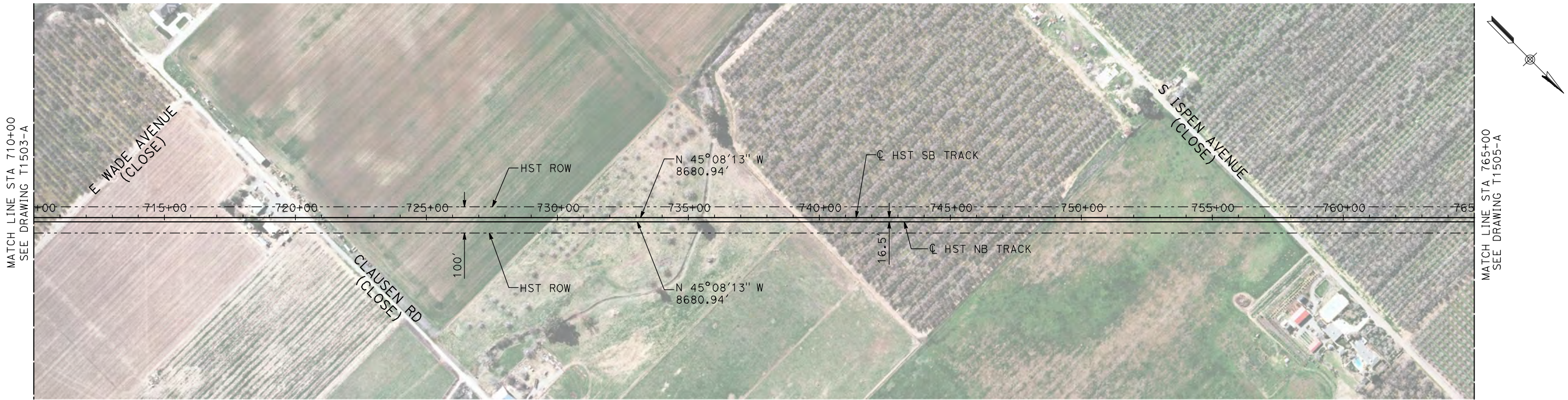
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 655+00 TO STA 710+00

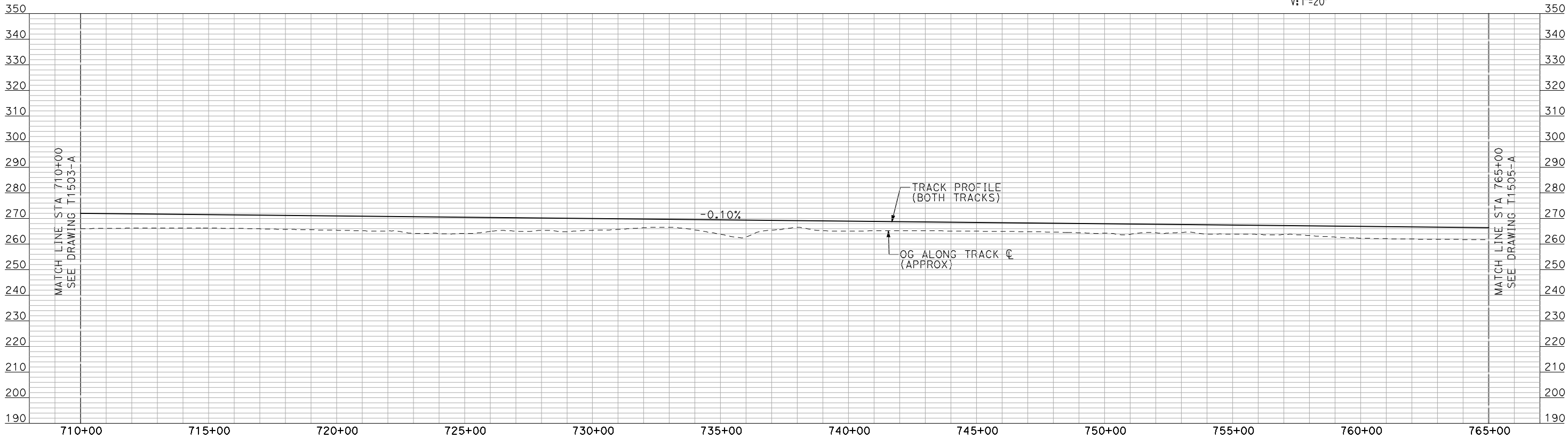
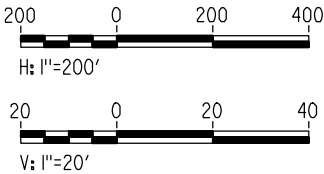
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



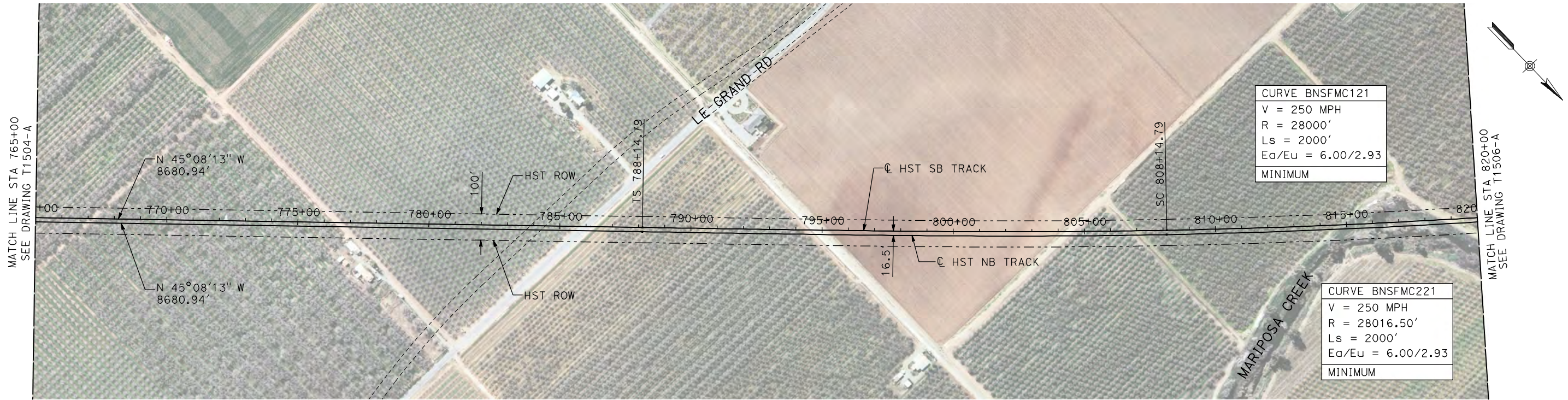
**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 710+00 TO STA 765+00

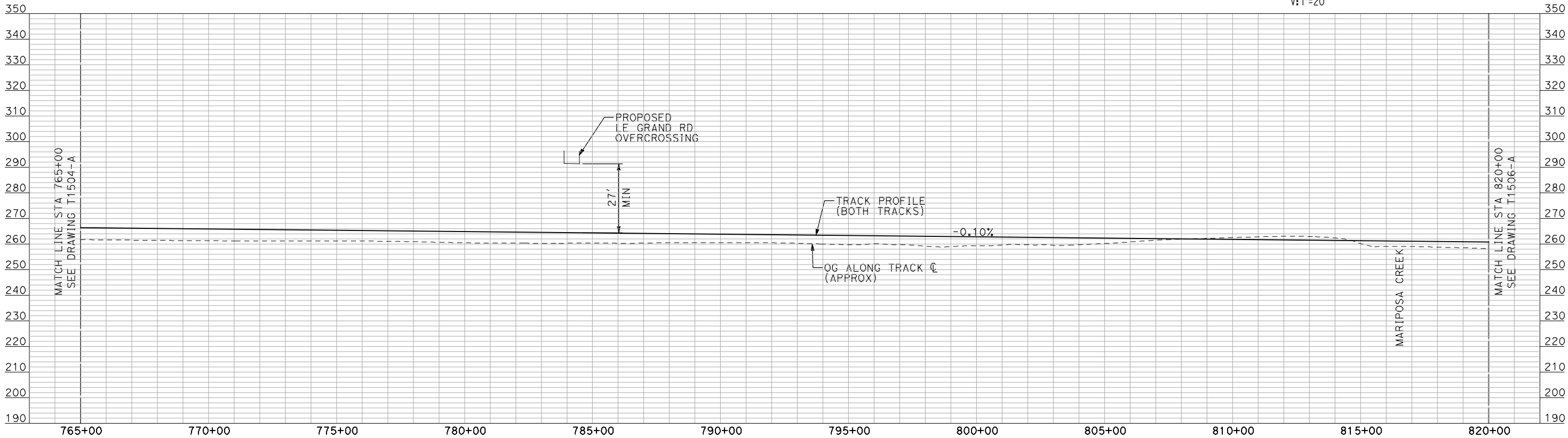
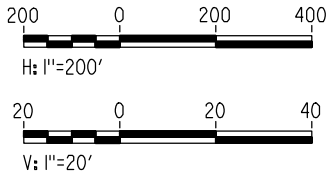
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DRAWING NO. T1504-A
SCALE AS SHOWN
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

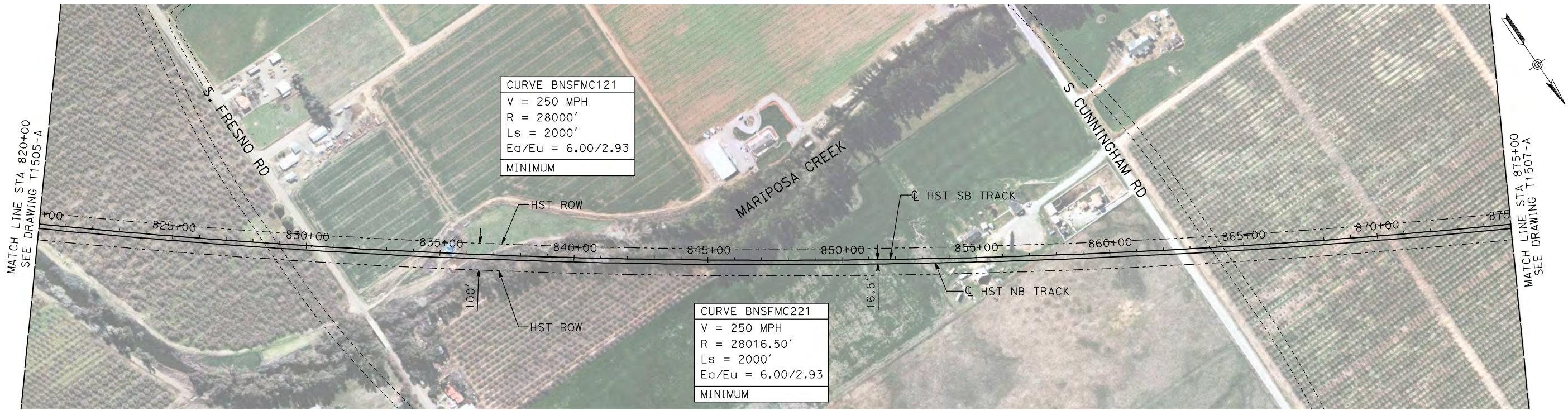


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 765+00 TO STA 820+00

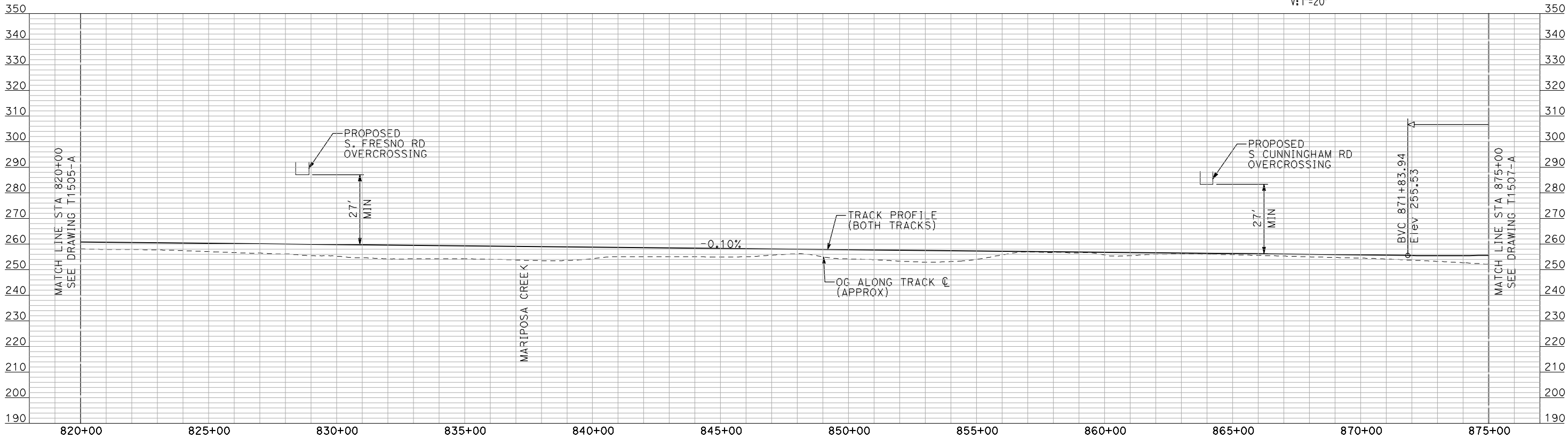
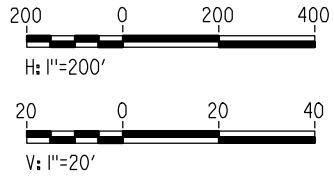
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DRAWING NO. T1505-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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PLAN



PROFILE

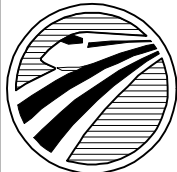
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



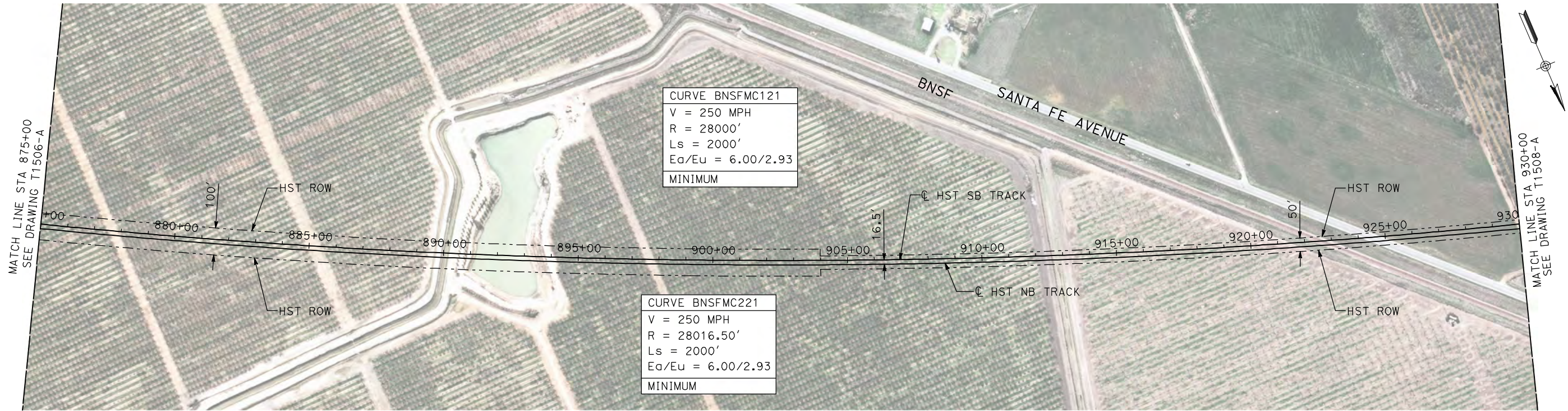
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

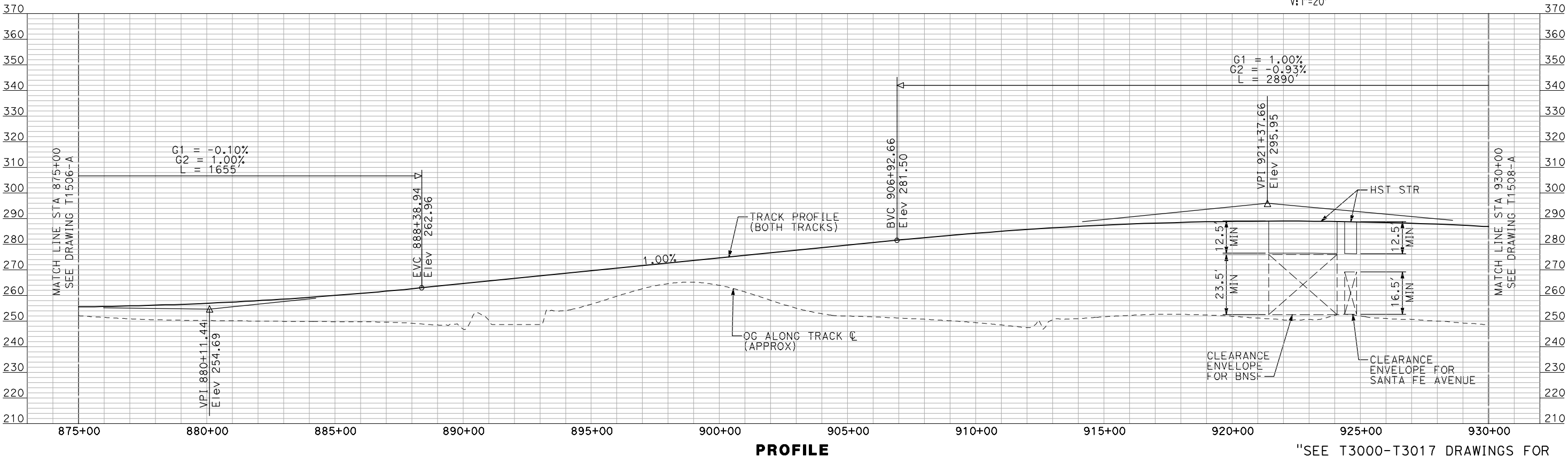
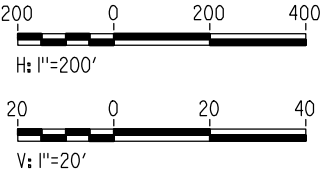
BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 820+00 TO STA 875+00

CONTRACT NO. HSR06-007
DRAWING NO. T1506-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

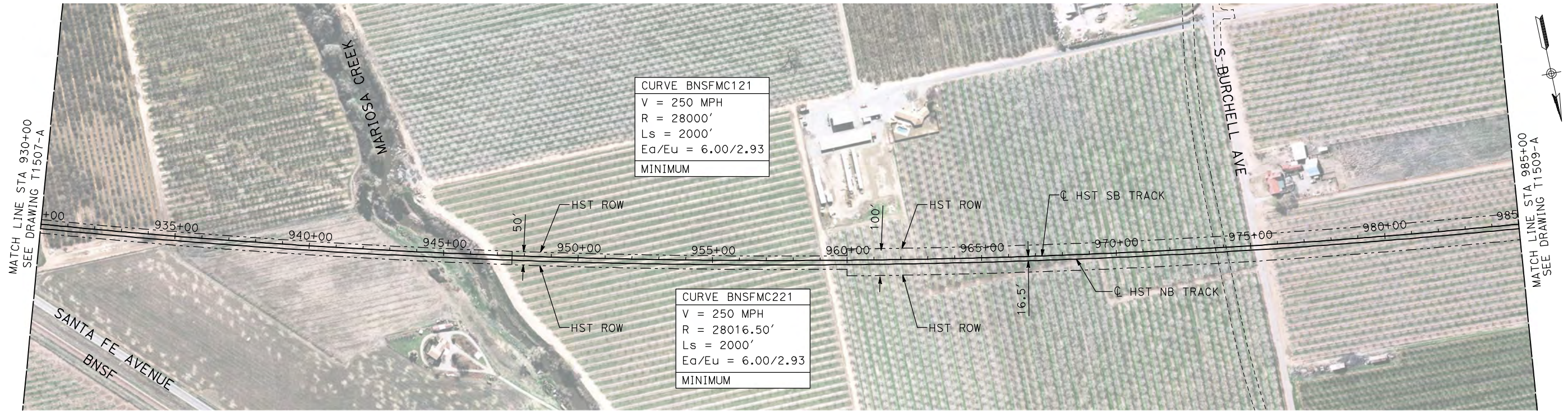
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 875+00 TO STA 930+00

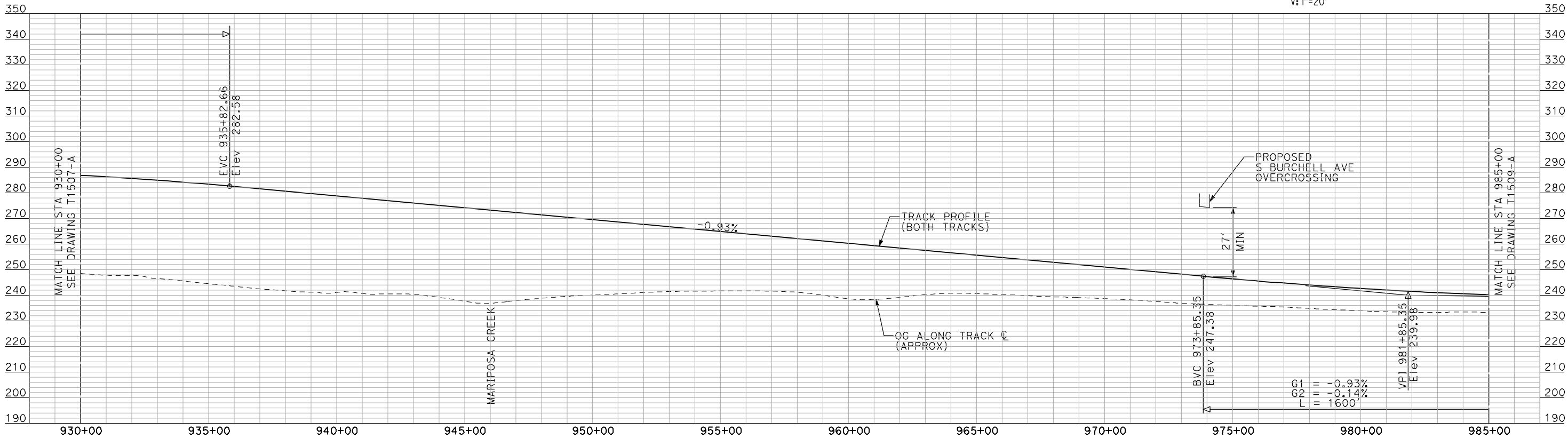
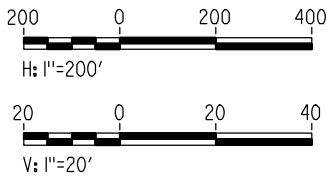
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DRAWING NO.
T1507-A
SCALE
AS SHOWN
SHEET NO.
OF

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

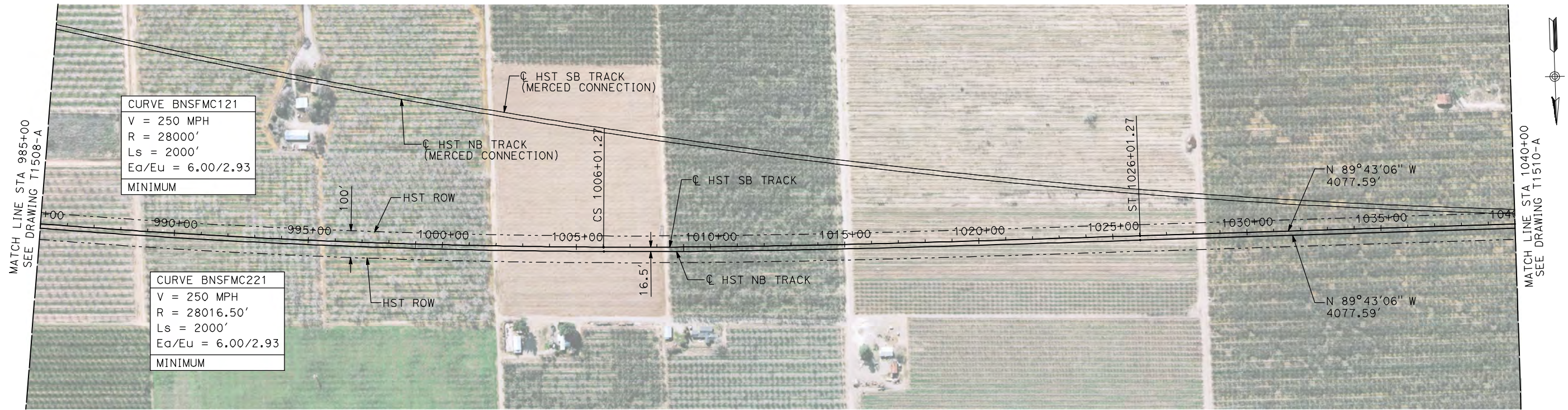


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 930+00 TO STA 985+00

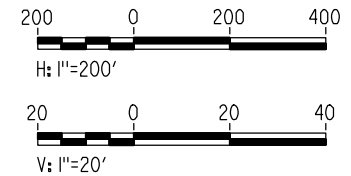
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PLAN



PROFILE

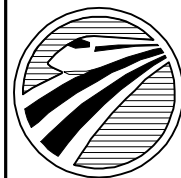
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



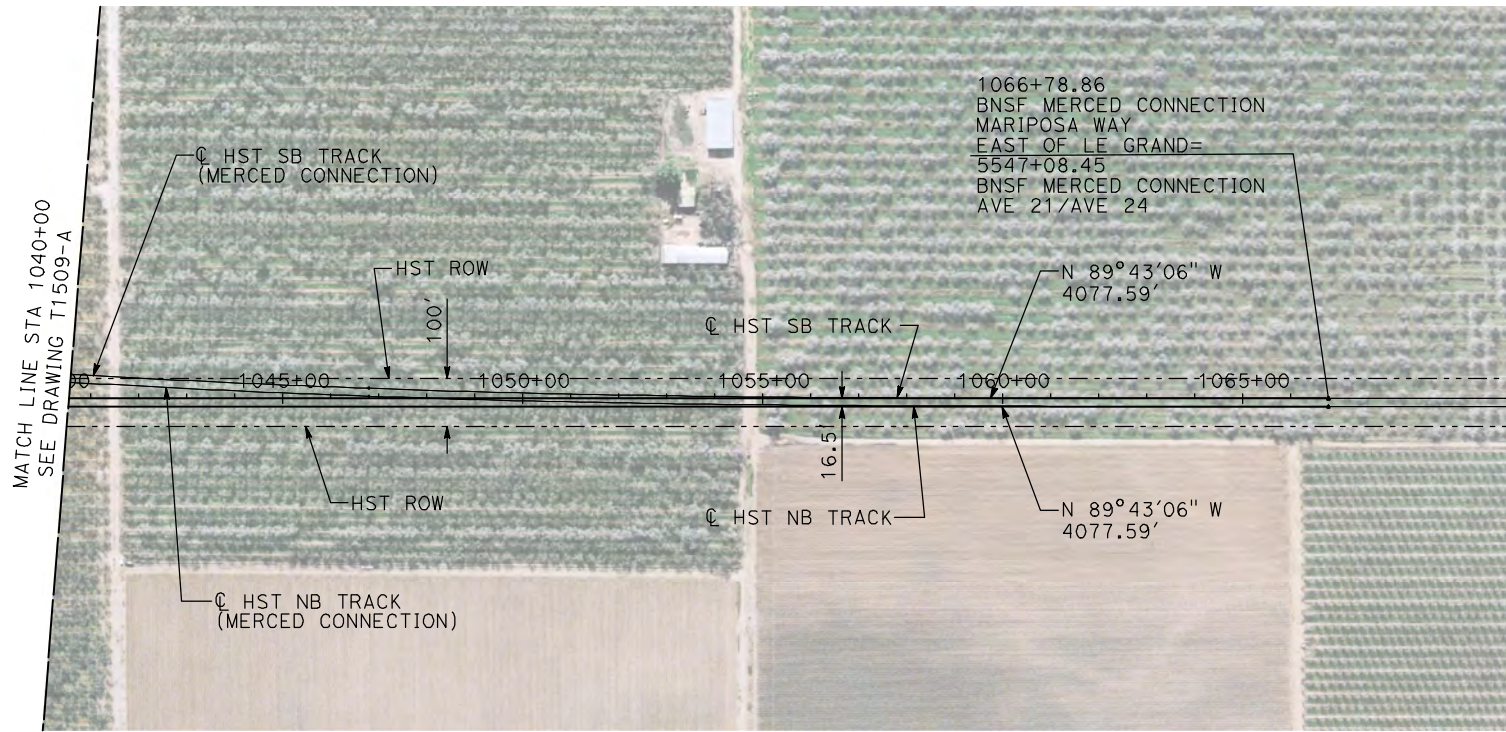
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 985+00 TO STA 1040+00

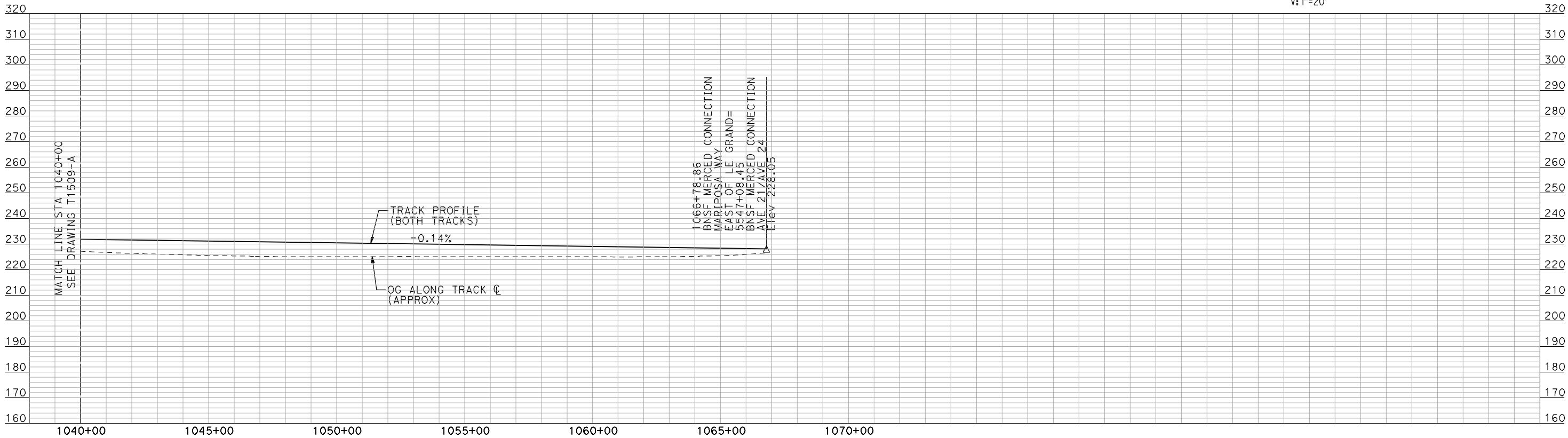
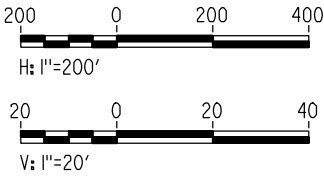
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DRAWING NO. T1509-A
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PLAN

- NOTES:
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PROFILE

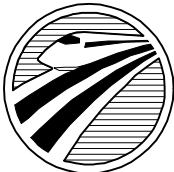
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
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DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

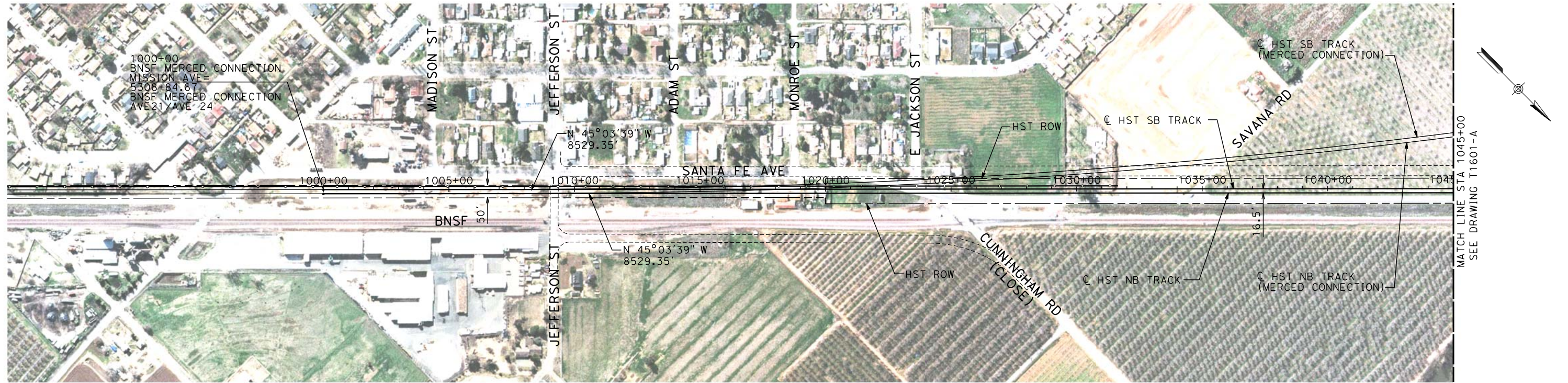
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MARIPOSA WAY EAST OF LE GRAND
PLAN AND PROFILE
STA 1040+00 TO STA 1066+78.86

CONTRACT NO. HSR06-007
DRAWING NO. T1510-A
SCALE AS SHOWN
SHEET NO. ### OF ###

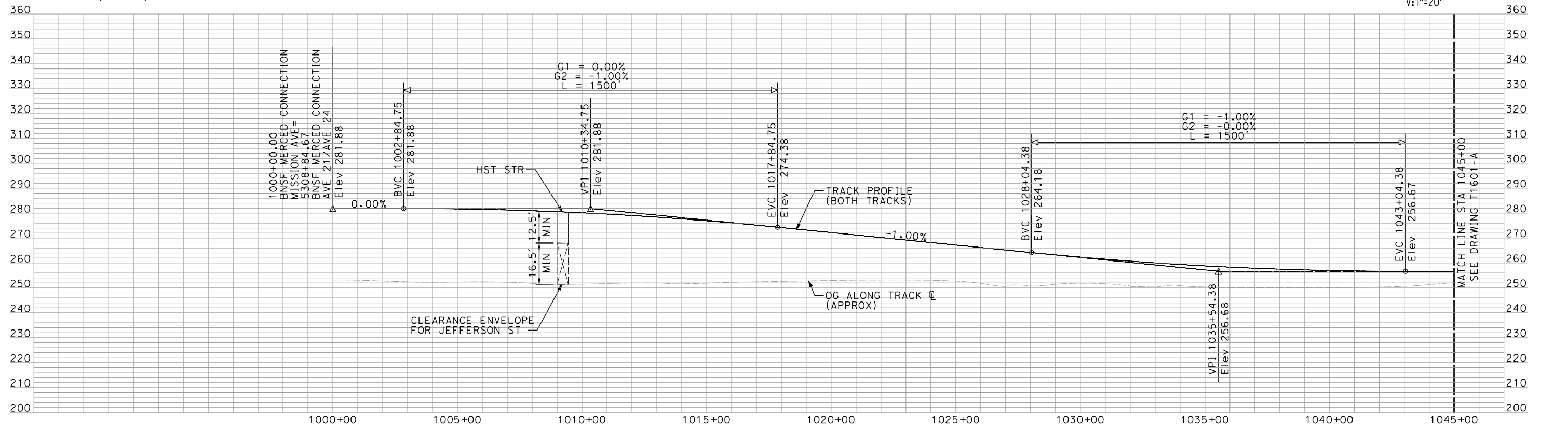
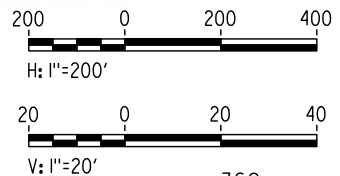
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shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

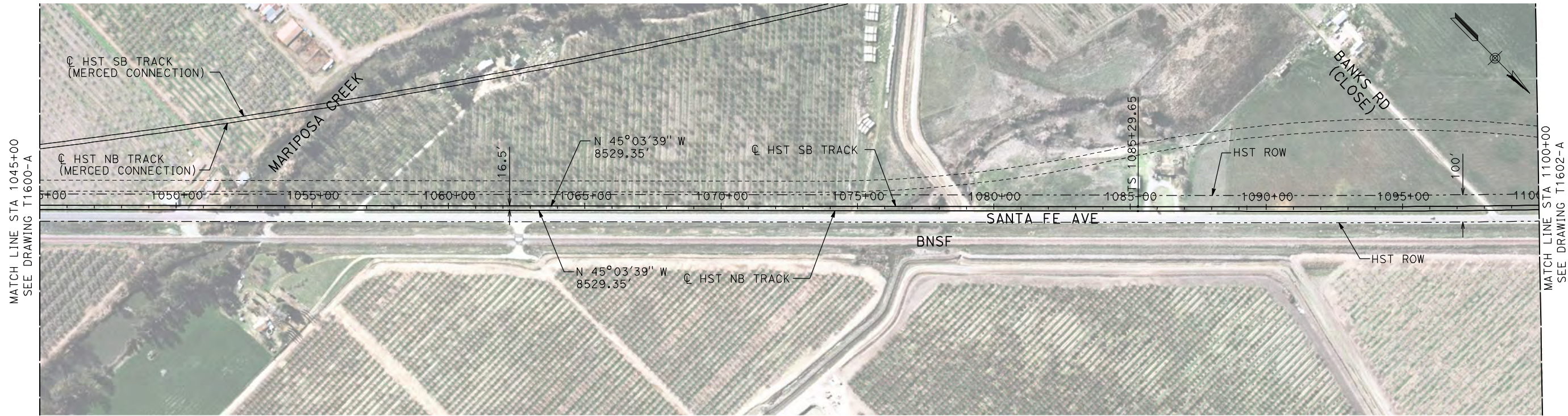
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1000+00 TO STA 1045+00

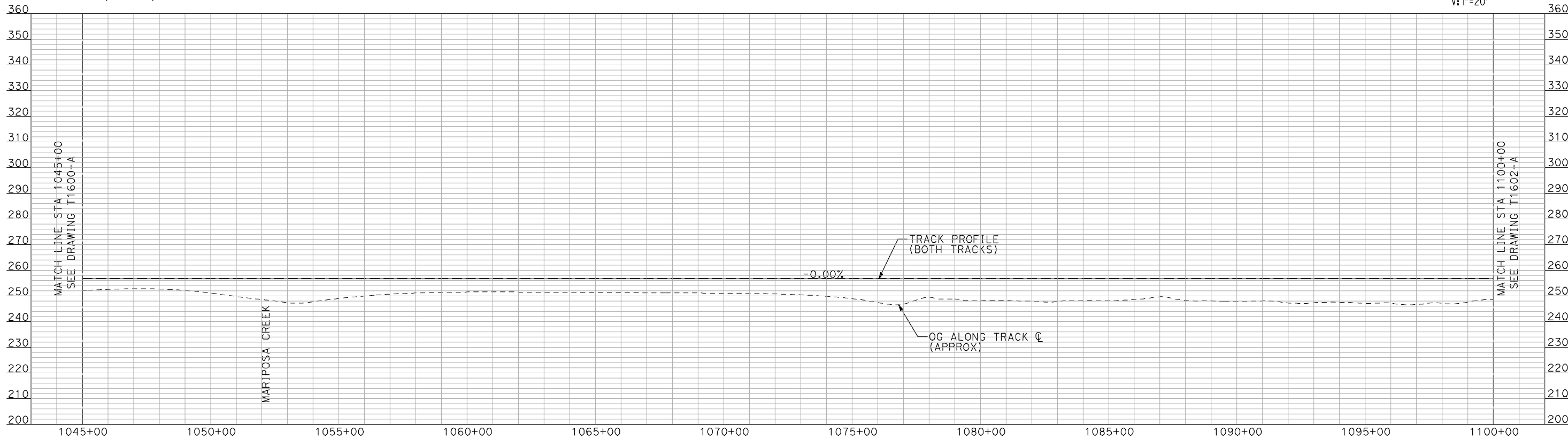
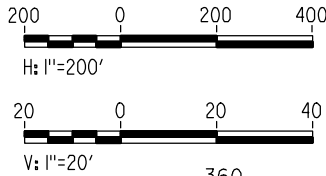
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HSR06-007
DRAWING NO.
T1600-A
SCALE
AS SHOWN
SHEET NO.
OF

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

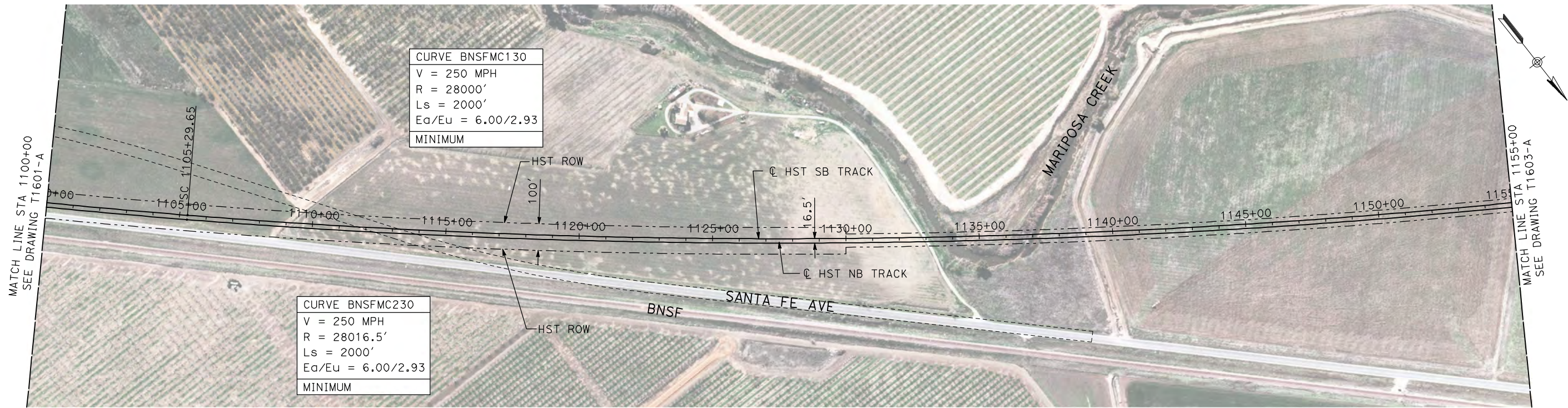


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1045+00 TO STA 1100+00

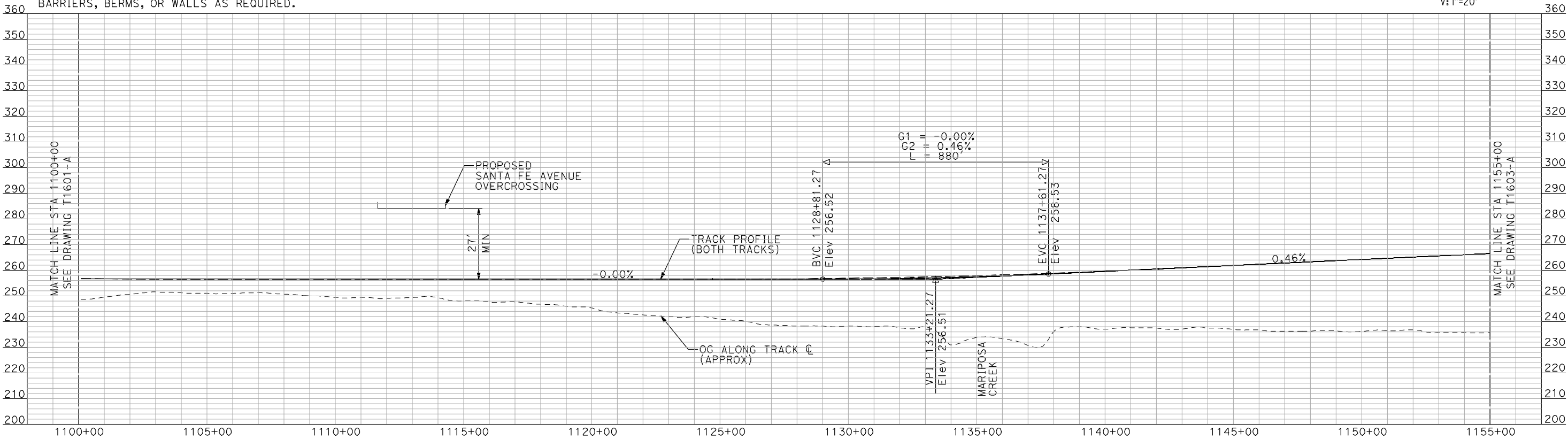
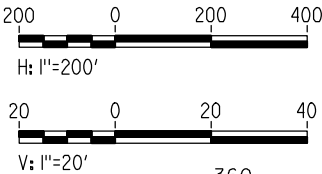
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PLAN

- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION



Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811





CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1100+00 TO STA 1155+00

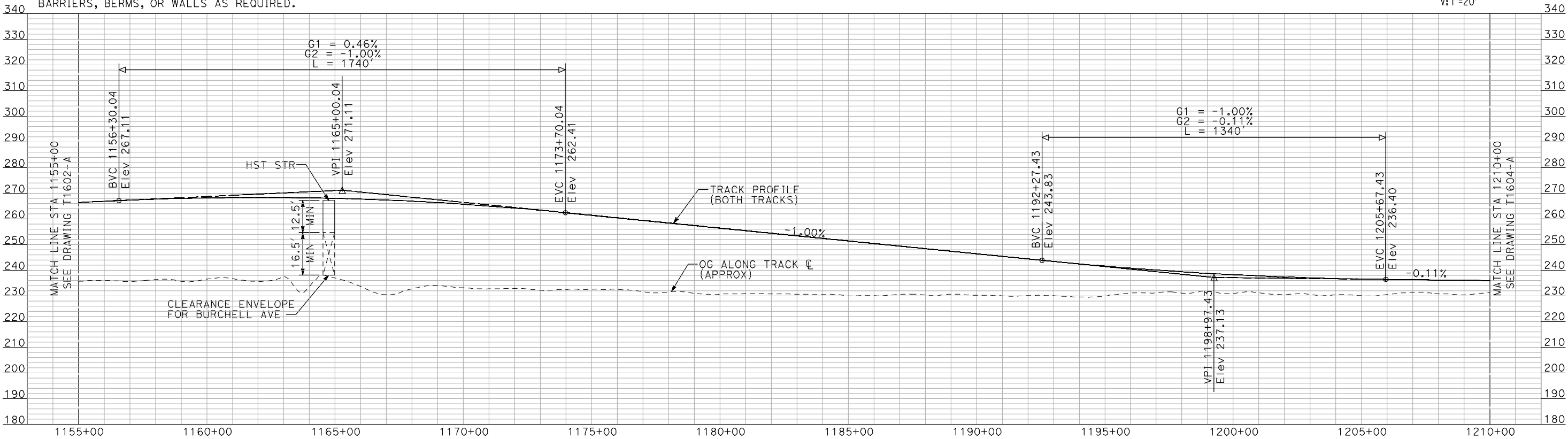
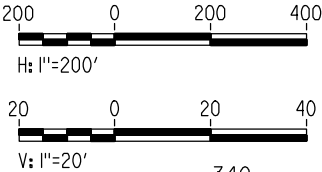
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PLAN

- NOTES:
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

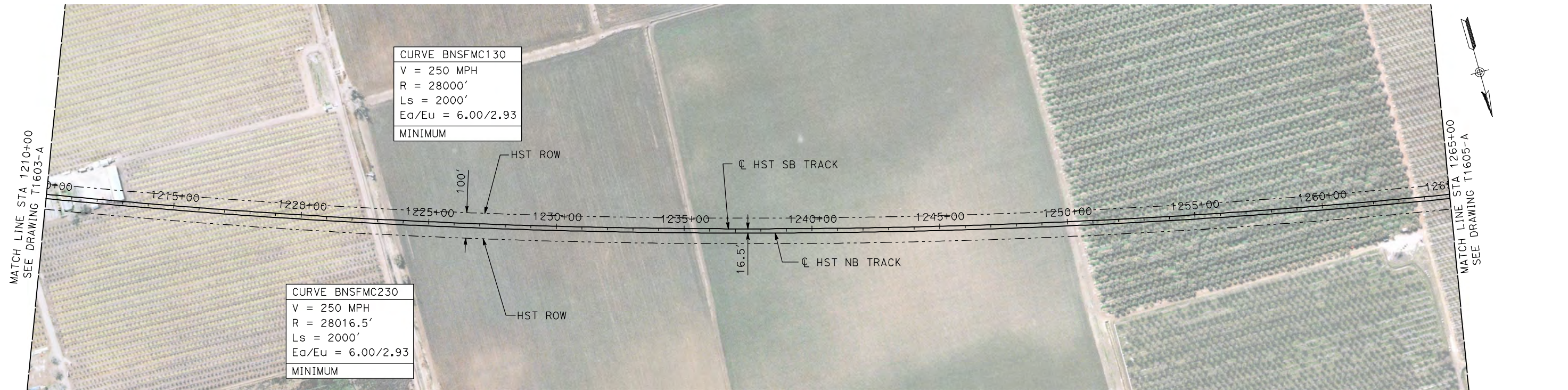
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1155+00 TO STA 1210+00

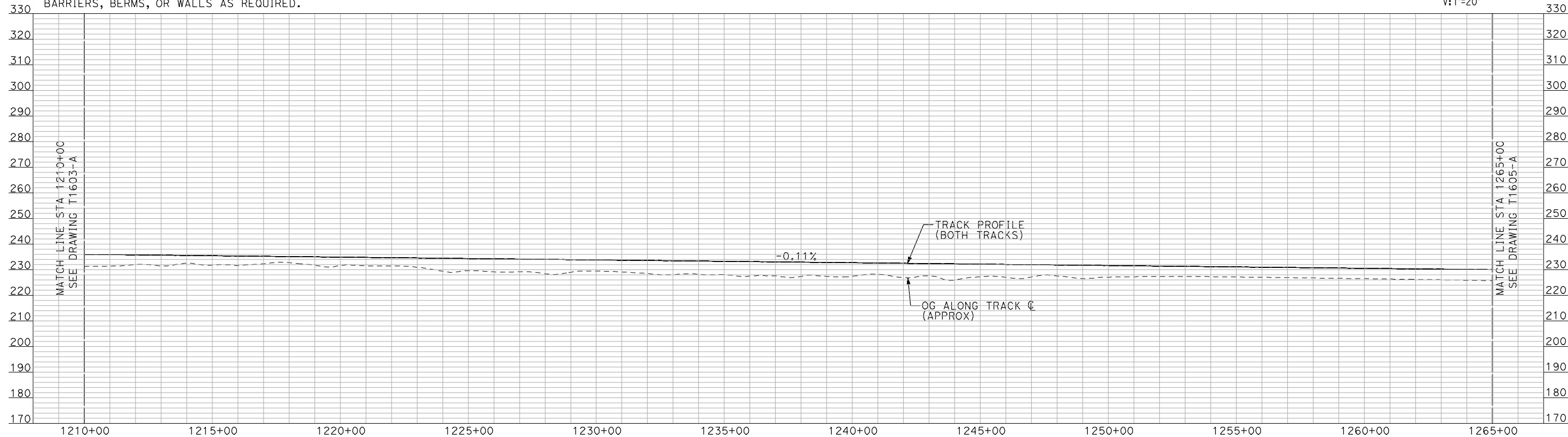
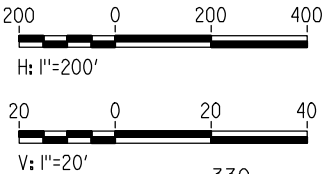
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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



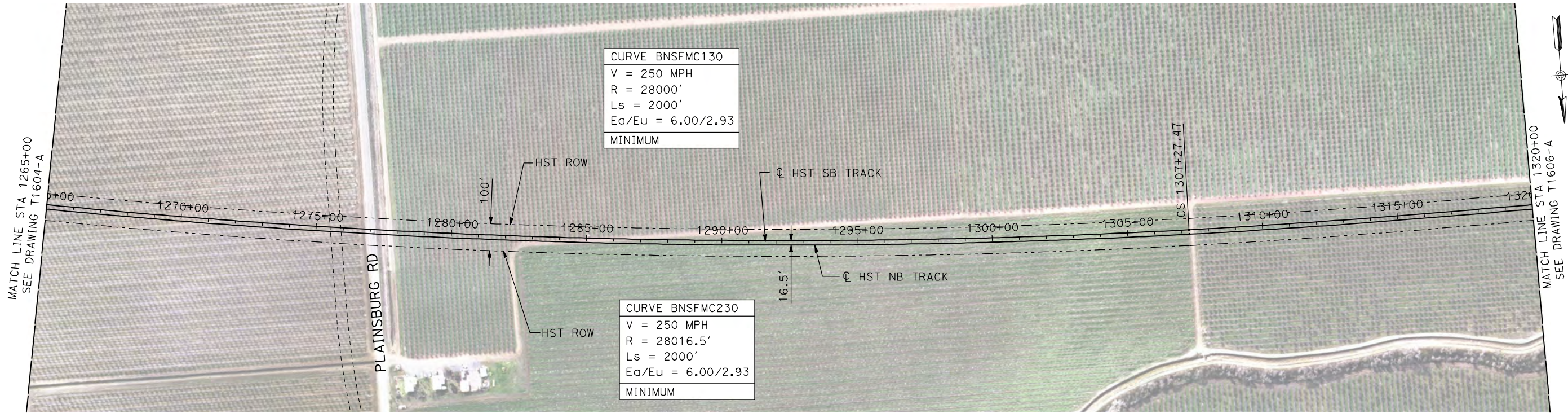
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1210+00 TO STA 1265+00

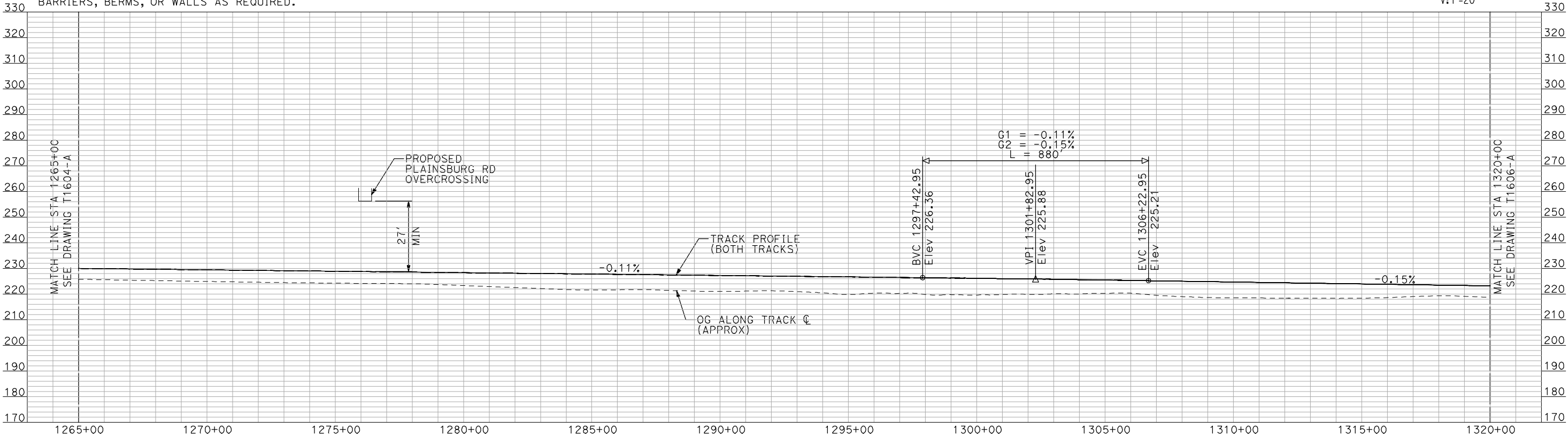
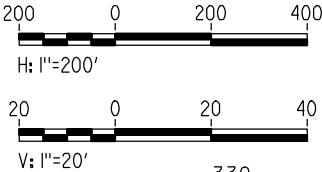
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PLAN

- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

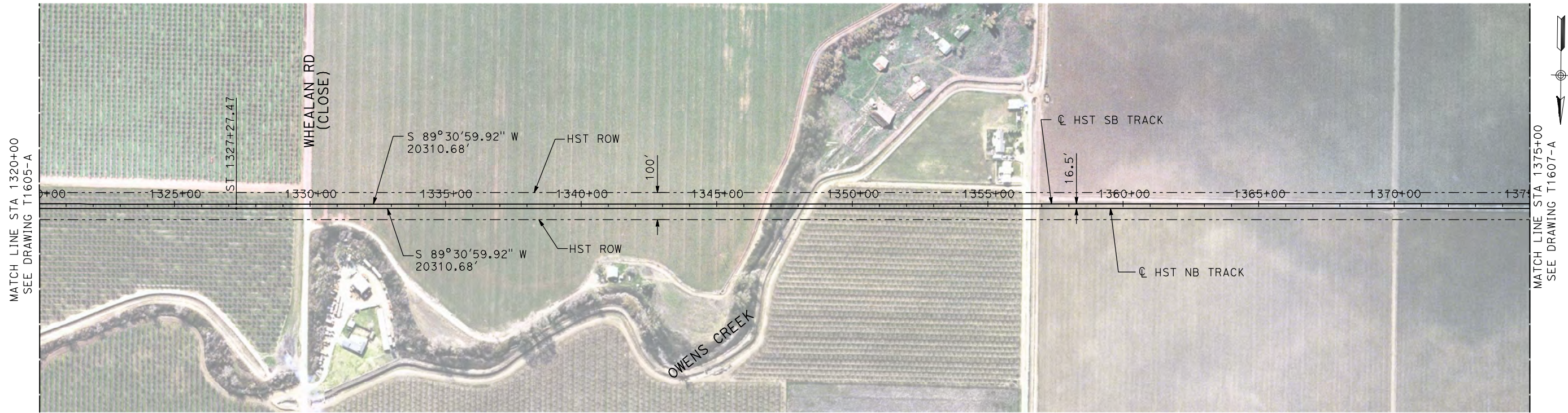
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1265+00 TO STA 1320+00

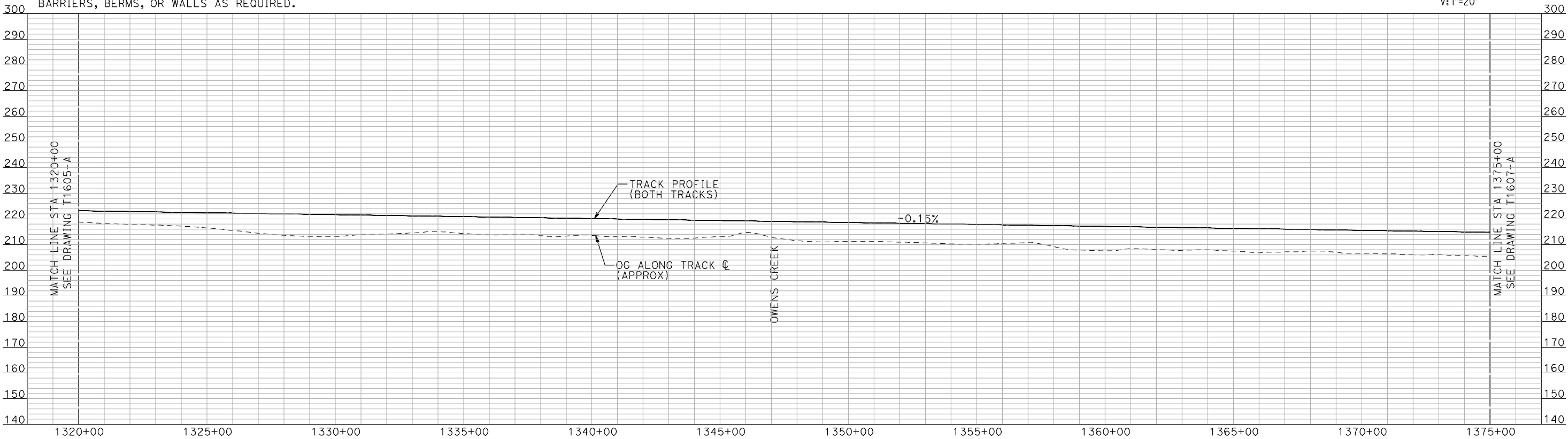
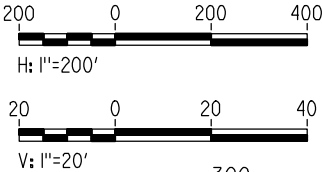
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PLAN

- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

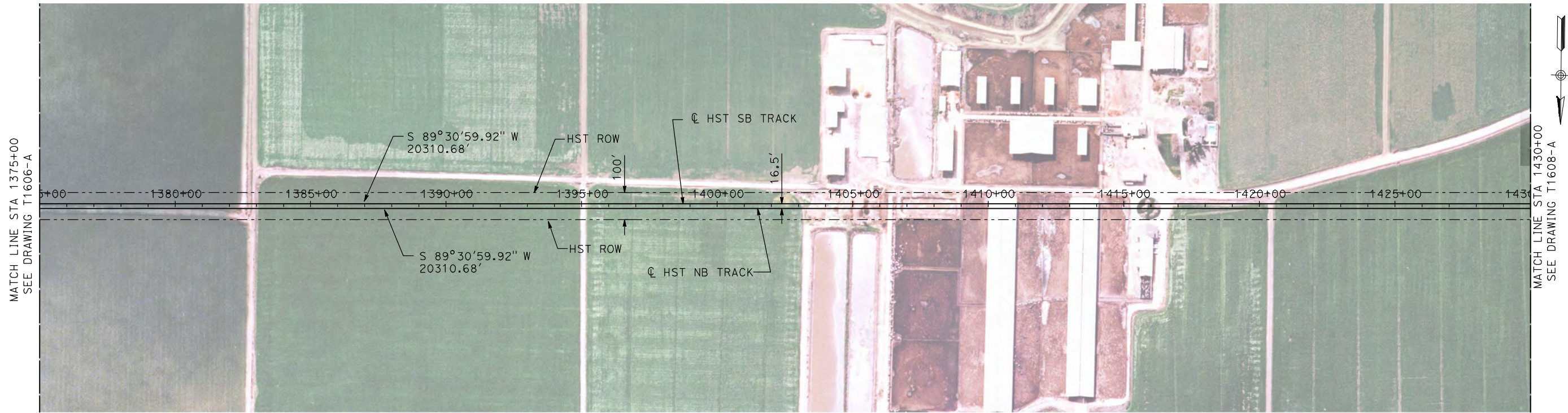
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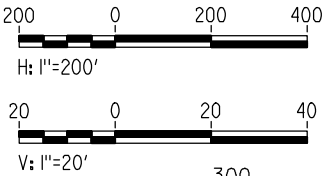
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1320+00 TO STA 1375+00

CONTRACT NO. HSR06-007
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SHEET NO. ### OF ###

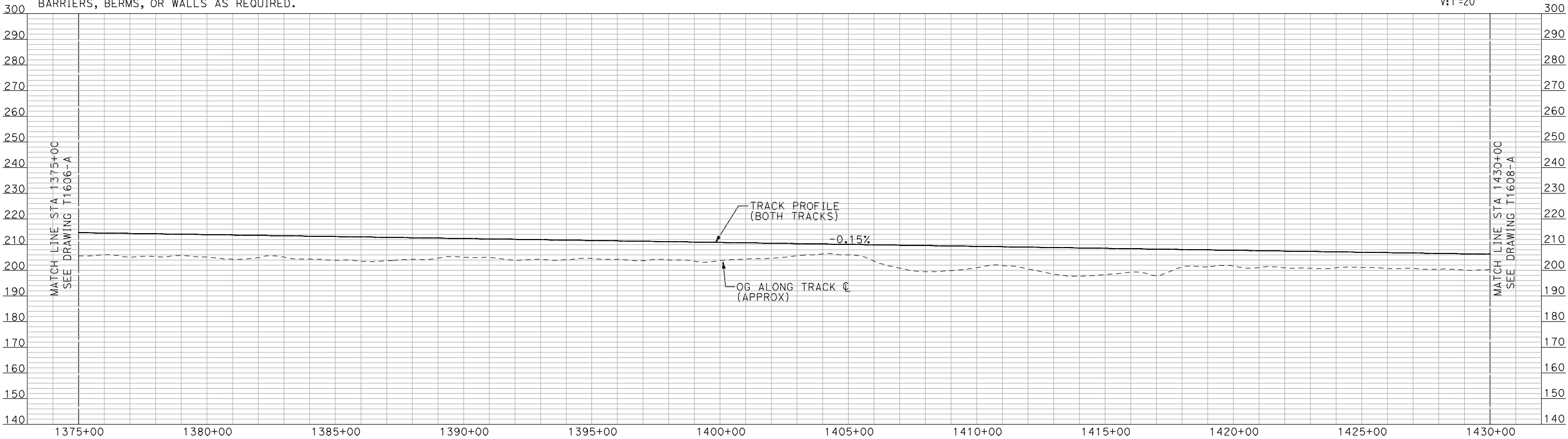
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PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



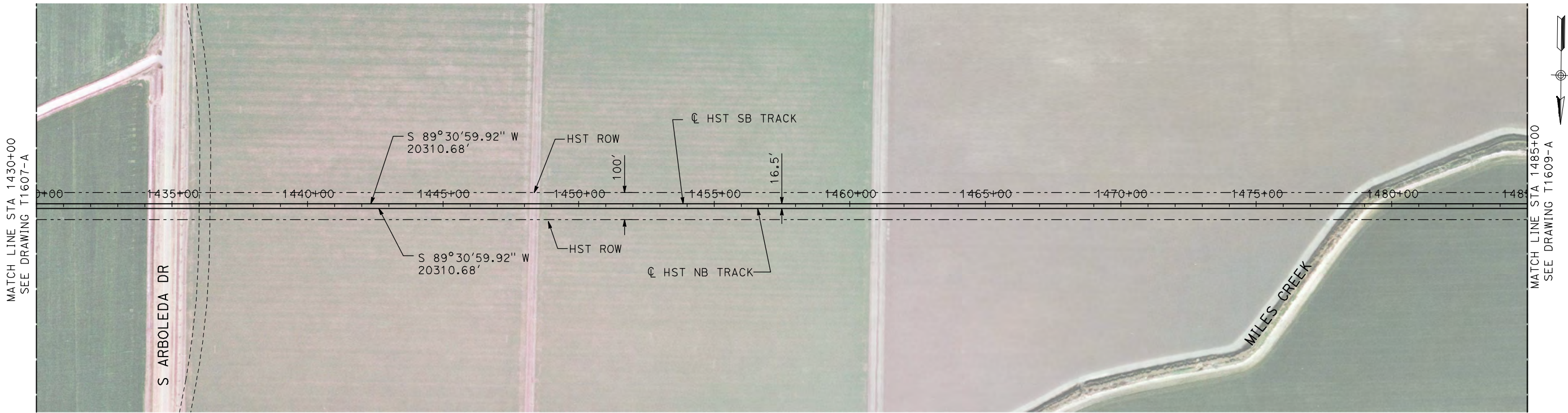
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1375+00 TO STA 1430+00

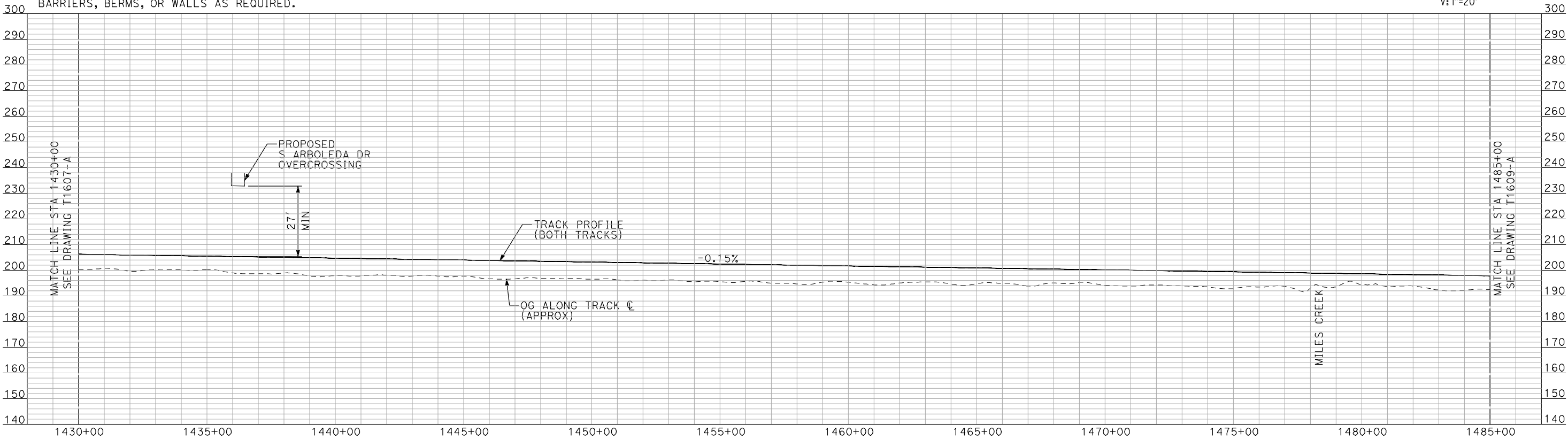
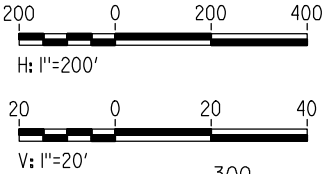
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PLAN

- NOTES:
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

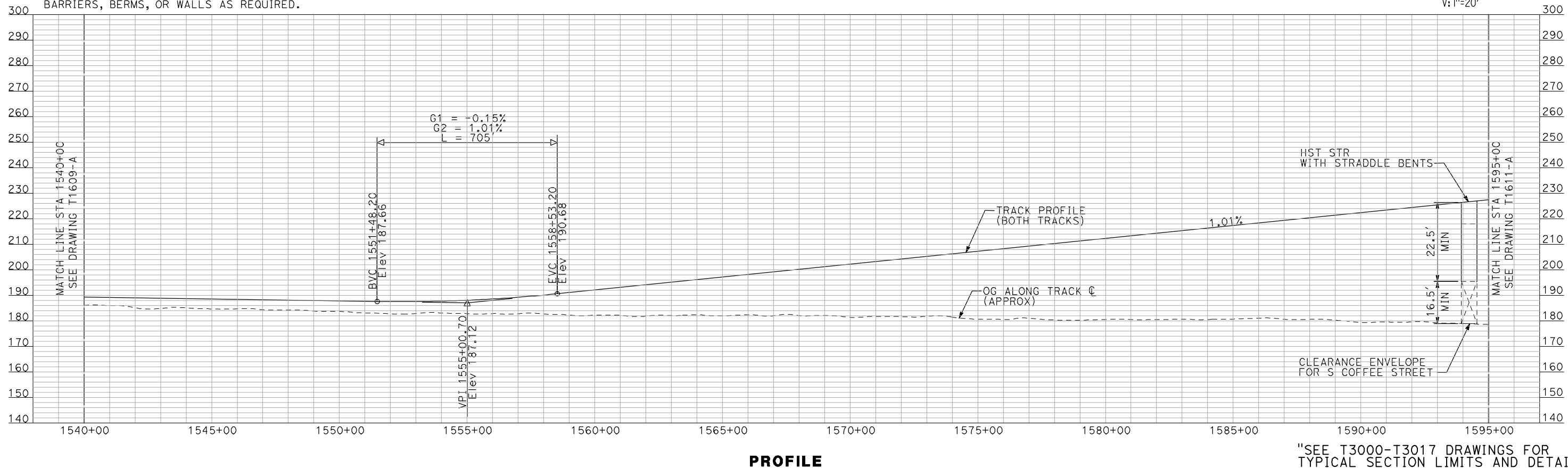
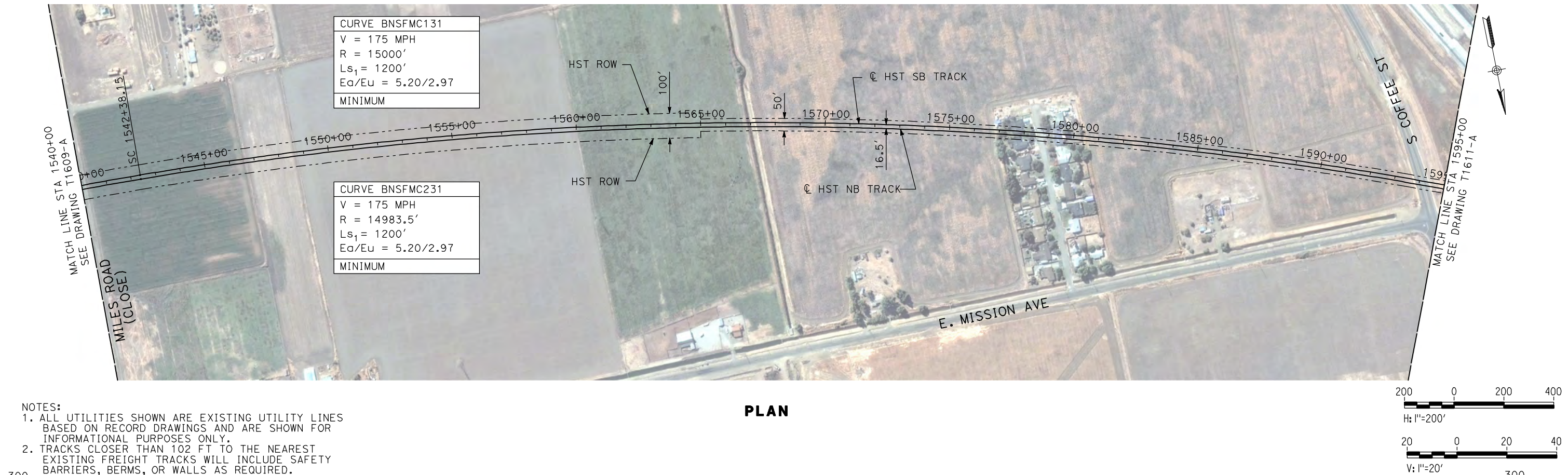


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1430+00 TO STA 1485+00

CONTRACT NO. HSR06-007
DRAWING NO. T1608-A
SCALE AS SHOWN
SHEET NO. ### OF ###

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

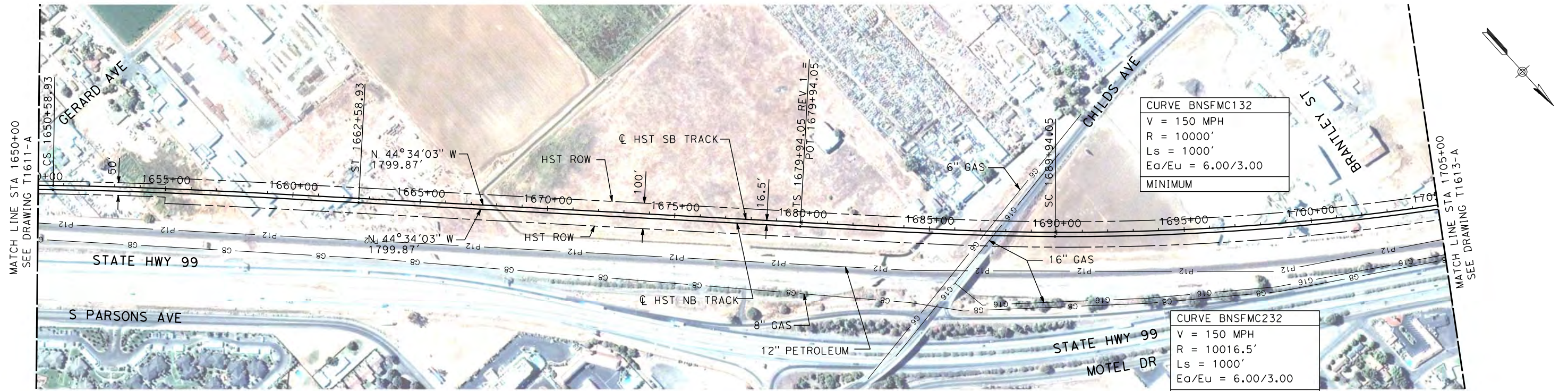
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1540+00 TO STA 1595+00

CONTRACT NO. HSR06-007
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SHEET NO. ### OF ###

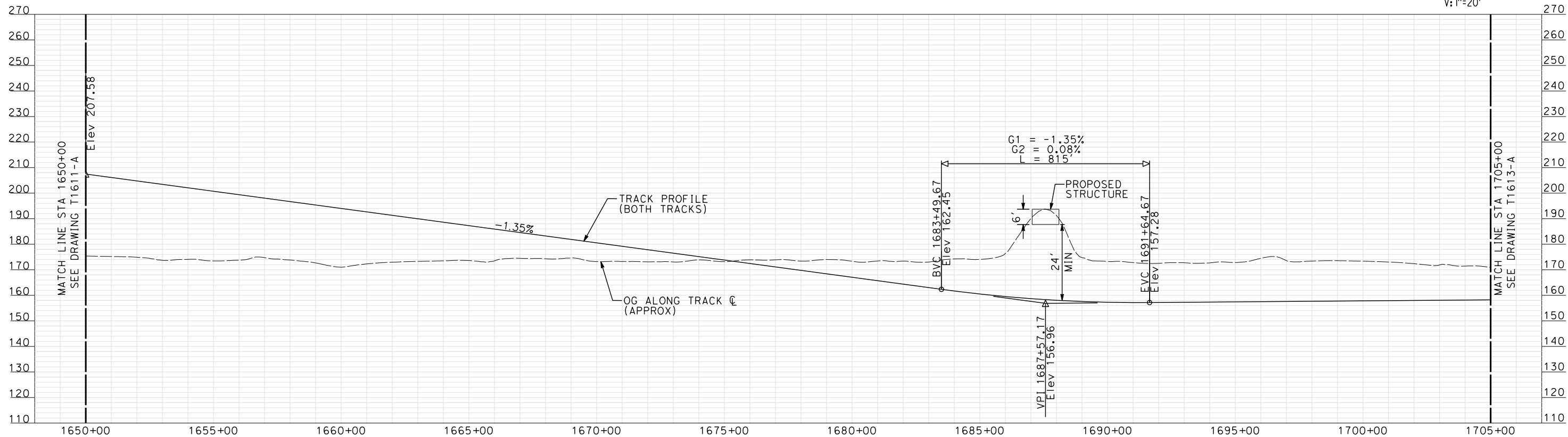
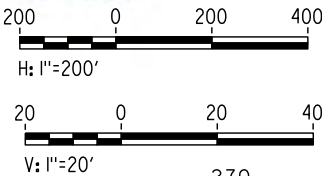
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shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

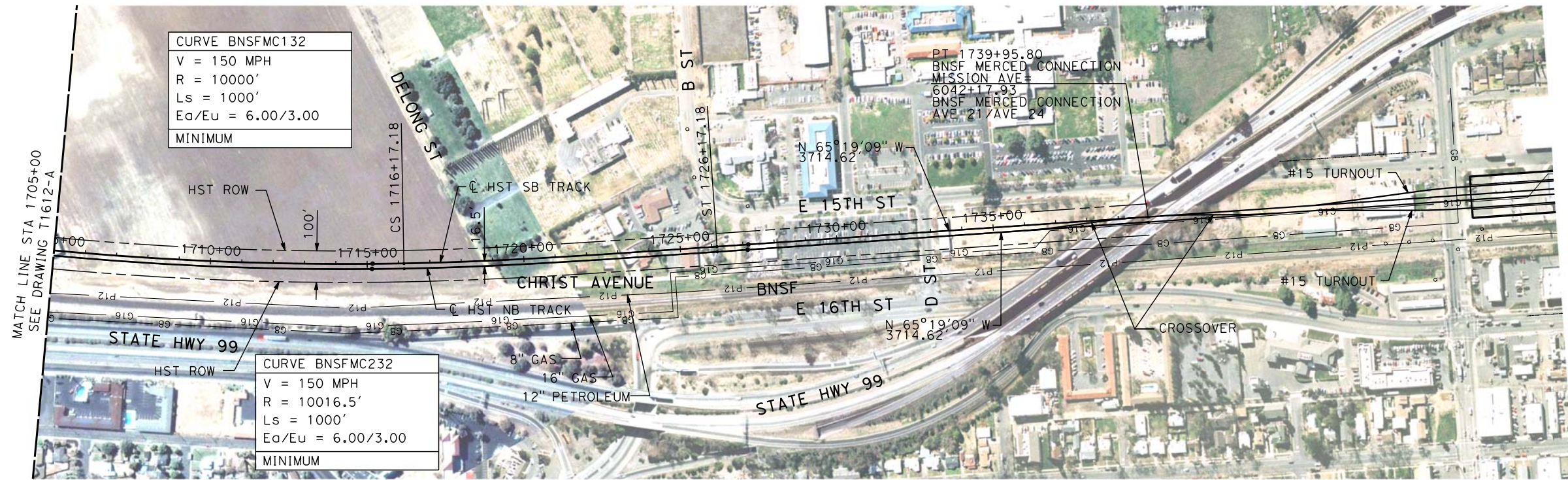


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1650+00 TO STA 1705+00

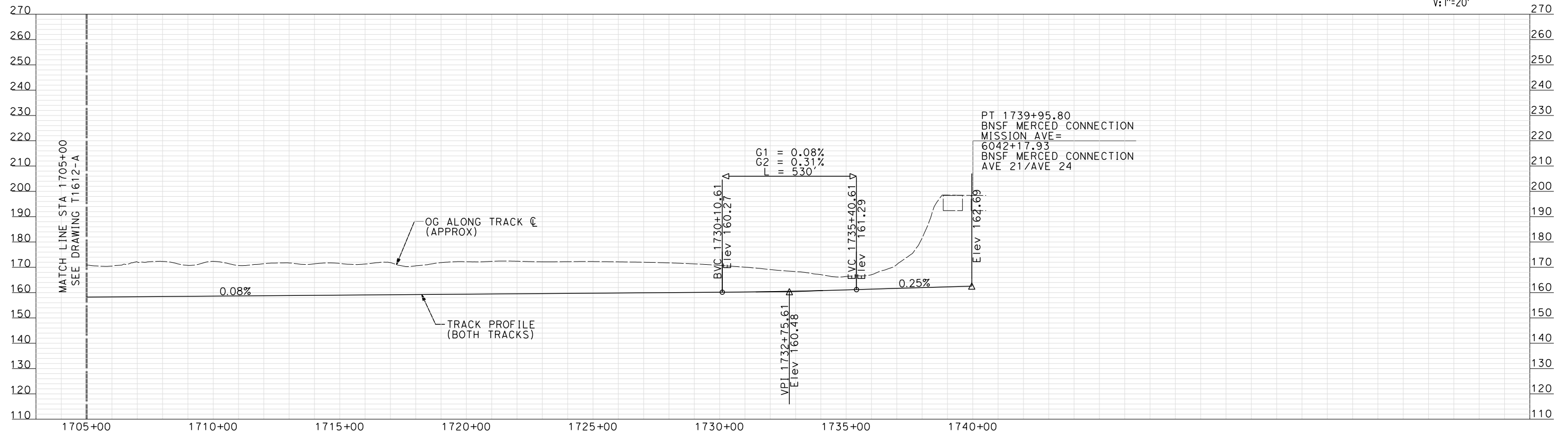
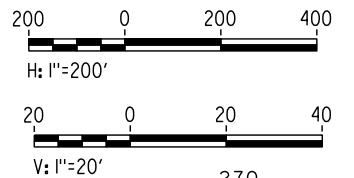
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shieldsa



NOTE:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
MISSION AVENUE
PLAN AND PROFILE
STA 1705+00 TO STA 1739+95.80

CONTRACT NO. HSR06-007
DRAWING NO. T1613-A
SCALE AS SHOWN
SHEET NO. ### OF ###